

# Substance Use in Minnesota: A State Epidemiological Profile



Prepared by The Minnesota Institute of Public Health for  
the Minnesota Department of Human Services,  
Alcohol and Drug Abuse Division

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## Executive Summary

### Overview

The 2011 Minnesota State Epidemiological Profile of Substance Use (Epi Profile) was created to help the state and communities determine prevention needs based upon available data on substance use and related outcomes. Accordingly, the Epi Profile can be used by a variety of audiences for related, but different, purposes. State-level administrators may use the profile to prepare applications for federal funding or they may use it to monitor prevention-related trends in local communities to which they administer grants. Community-level prevention planners may use the Epi Profile, in conjunction with the interactive website located at [www.sumn.org](http://www.sumn.org), to assess the relative importance of substance related problems in their communities or to apply for grant funding themselves. Overall, the Profile is intended to help all audiences in Minnesota make decisions based on existing evidence and demonstration of need.

The Epi Profile provides a comprehensive source of data related to alcohol, tobacco and other drugs (ATOD) Minnesota. Three types of data are presented in the Profile:

- **Consumption data**- Information on ATOD use
- **Consequence data**- Information on negative outcomes associated with ATOD use
- **Risk and Protective Factor data**- Factors influencing use

### Methods

The Profile is intended as a “one-stop shop” for audiences interested in substance abuse data. Data from fourteen state and national sources are presented ranging from years 1998 to 2010. Much of the data contained in the document will be familiar to potential users of the Epi Profile. However, the utility of the Epi Profile lies in the fact that the various sources are presented in one comprehensive document.

The data are presented in a variety of ways:

- State data are presented in conjunction with national data
- Data are organized by a variety of demographic variables (gender, age, race/ethnicity, metro/non-metro)
- Trend data presents data over time

## Key Findings

Overall, alcohol, tobacco and other drug (ATOD) consumption rates and associated negative consequences have decreased or remained stable in Minnesota since the late 1990s. However, findings vary according to various demographic characteristics. For example, the driving while intoxicated (DWI) arrest rate in Minnesota is over three times as prevalent among men compared to women.

Following are a selection of key findings from the 2011 Profile. It is important to note that differences are not assessed in scientific terms using statistical significance. Instead, we encourage the user of the profile to attribute meaning to percent change in conjunction with other information regarding local context and community-level ATOD trends.

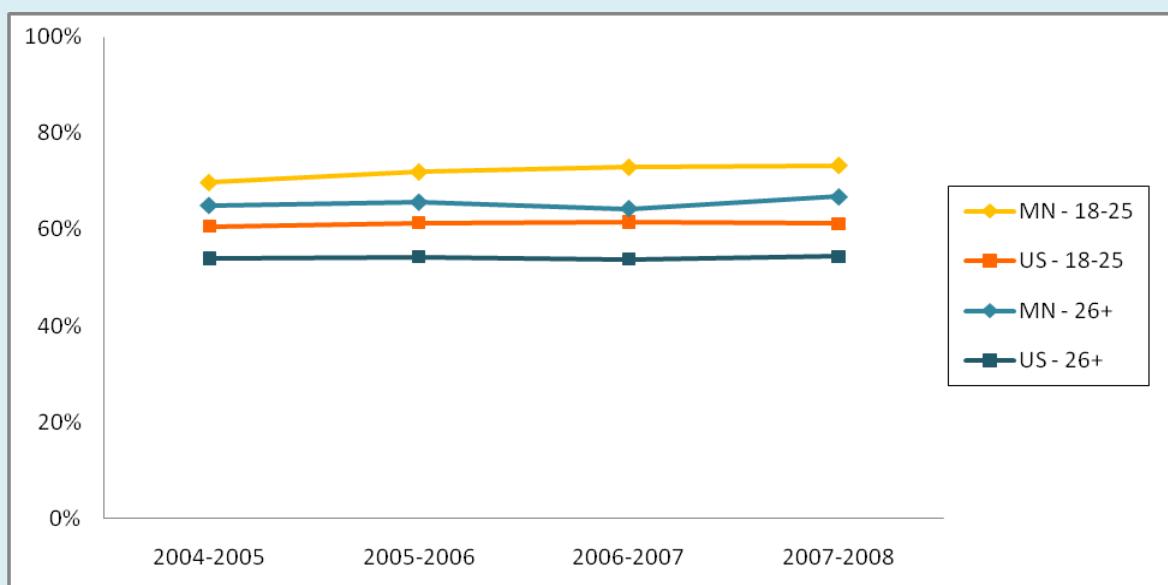
### Alcohol

#### Adults

- Past 30 day alcohol use among adults is higher in Minnesota than the US average (Figure 1). *National Survey on Drug Use and Health* Another national survey found similar results in 2009—62% of Minnesotans ages 18 and over reported drinking in the past 30 days while 54% of adults nationally reported past month use. *Behavioral Risk Factor Surveillance System*
- Past 30 day binge drinking among adults is higher in Minnesota than the US average, and on the rise (Figure 2). *National Survey on Drug Use and Health*
- There exists a wide gender gap among Minnesota residents driving while intoxicated: men were almost three times as likely as women to be involved in an impaired driving incident in 2009. *Minnesota Office of Traffic Safety*

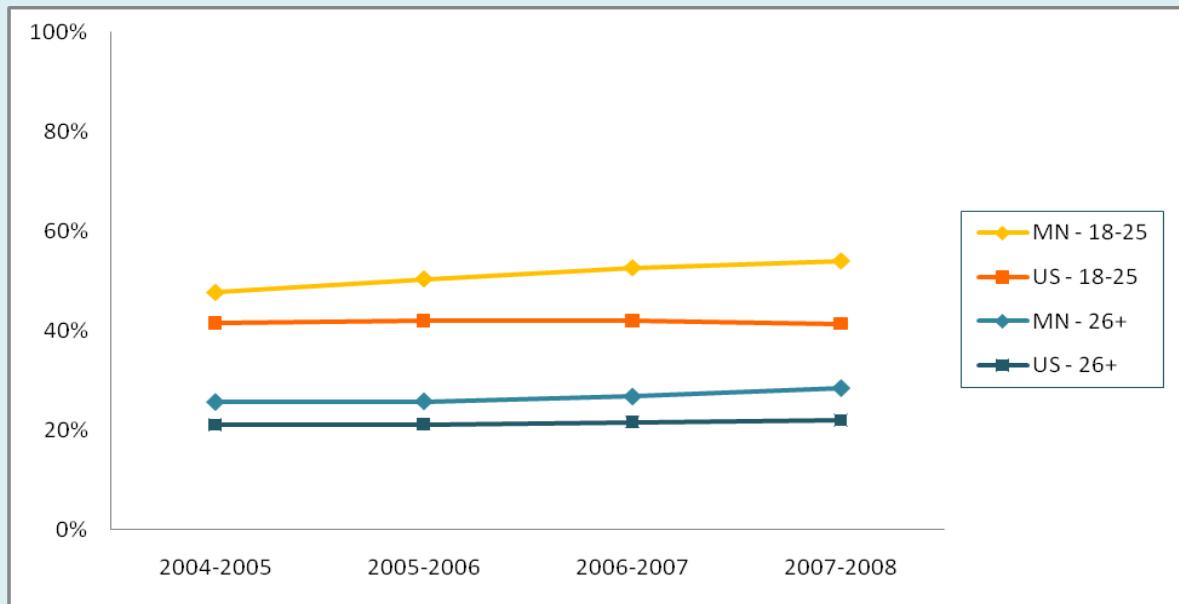
**Figure 1. Adult 30-Day Alcohol Use**

Source: *National Survey on Drug Use and Health*



**Figure 2. Adult Binge Drinking**

Source: National Survey on Drug Use and Health

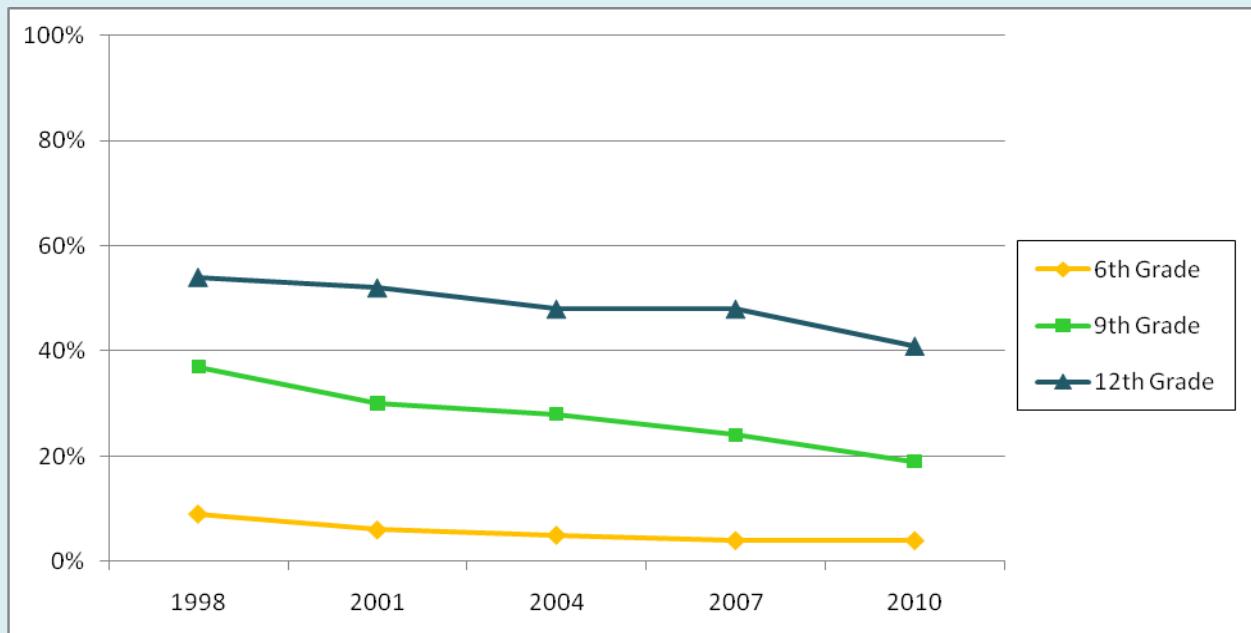


## Youth

- Reported 30-day alcohol use among youth has decreased 35% from 1998 to 2010: 31% vs. 20%. From 2007 to 2010, decreased rates were seen among both 9<sup>th</sup> and 12<sup>th</sup> graders (Figure 3). *Minnesota Student Survey*
- Reported student binge drinking (having 5 or more drinks in a row on at least one occasion) within the past two weeks decreased 38% from 1998 to 2010: 26% vs. 16%. From 2007 to 2010, decreased rates were seen among both 9<sup>th</sup> and 12<sup>th</sup> graders (Figure 4). *Minnesota Student Survey*
- Students reporting driving a motor vehicle one or more times after using alcohol or drugs, within the past 12 months, declined among 9<sup>th</sup> graders from 9% in 1998 to 4% in 2010; rates declined among 12<sup>th</sup> graders from 35% to 19%. *Minnesota Student Survey*
- Students reporting ever riding with friends who were driving impaired, declined among 9<sup>th</sup> graders from 30% in 1998 to 17% in 2010; rates declined among 12<sup>th</sup> graders from 47% to 33%. *Minnesota Student Survey*

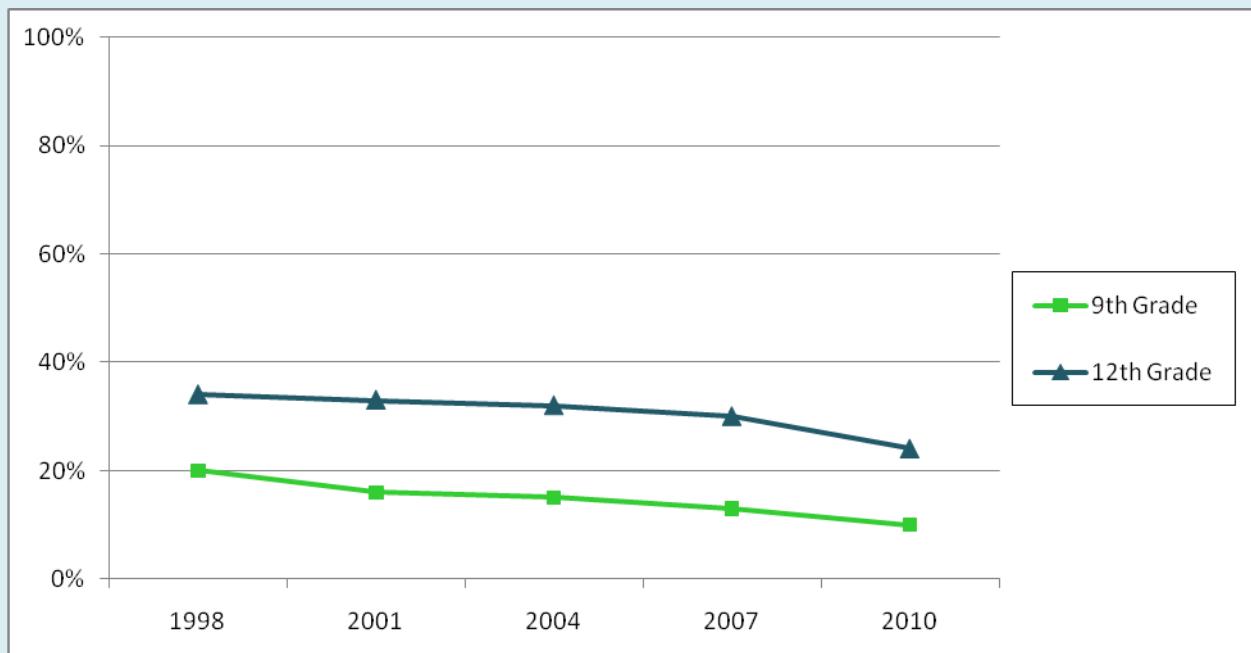
**Figure 3. Youth 30-Day Alcohol Use**

*Source: Minnesota Student Survey*



**Figure 4. Youth 2-Week Binge Drinking**

*Source: Minnesota Student Survey*



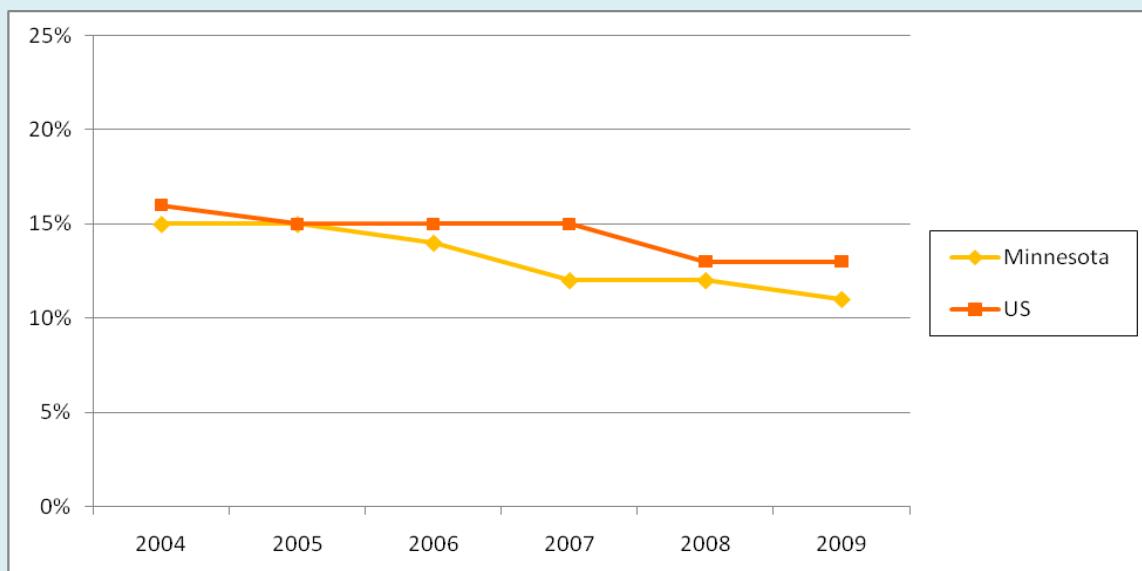
## Tobacco

### Adults

- The rate of daily cigarette smoking among adults in Minnesota (11%) was lower than the national average (13%) in 2009. Daily use in both Minnesota and the United States declined steadily from 2003 to 2008 (Figure 5). *Behavioral Risk Factor Surveillance System*
- The rate of lung, bronchus and trachea cancer deaths per 10,000 population has consistently been lower in Minnesota than the national average. *Minnesota Department of Health and CDC Wonder*

**Figure 5. Adult Daily Cigarette Use**

Source: *Behavioral Risk Factor Surveillance System*

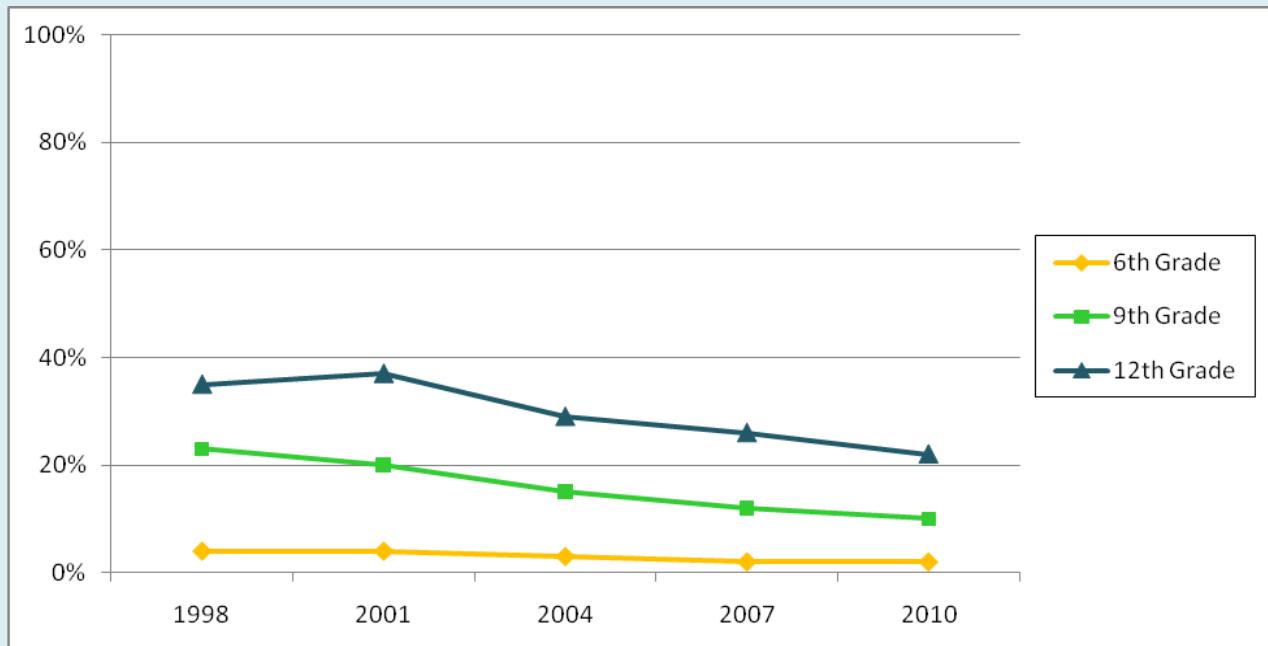


### Youth

- Reported 30-day cigarette smoking among youth in Minnesota decreased for all grades from 1998 to 2010 (Figure 6). Overall, reported current cigarette use among students has decreased 47% (19% to 10%) since 1998. *Minnesota Student Survey*
- In 2010, a higher percentage of Minnesota youth from non-metro counties (14%) reported first smoking all or part of a cigarette by the age of 13 years-old or younger than did students in the seven-county metro area (11%). *Minnesota Student Survey*
- Reported past 30 day using of chewing tobacco increased among male students from 2004 to 2010: 6% to 8% among 9<sup>th</sup> grade males, and 13% to 22% among 12<sup>th</sup> grade males. *Minnesota Student Survey*
- Minnesota tobacco retailer violation rates dropped below the national average in 2007, and continued to drop through 2010 (Figure 7). *SYNAR*

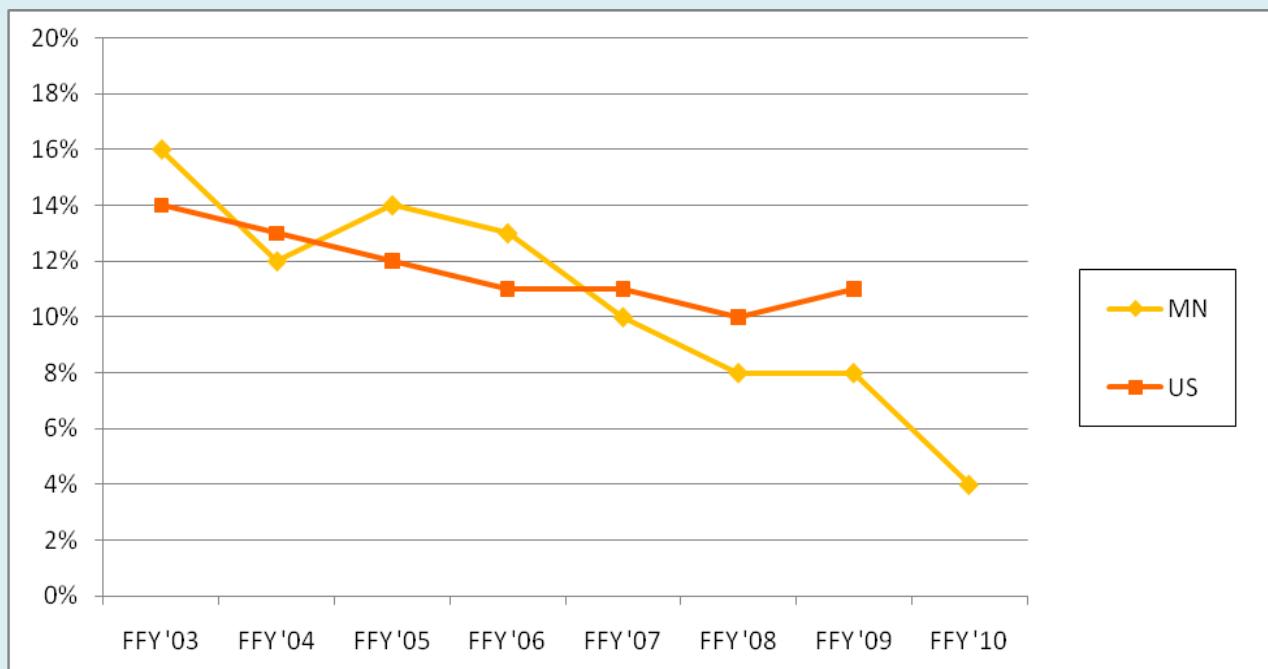
**Figure 6. Youth 30-Day Cigarette Use**

Source: Minnesota Student Survey



**Figure 7. Tobacco Retailer Violation Rates (RVR)**

Source: SYNAR



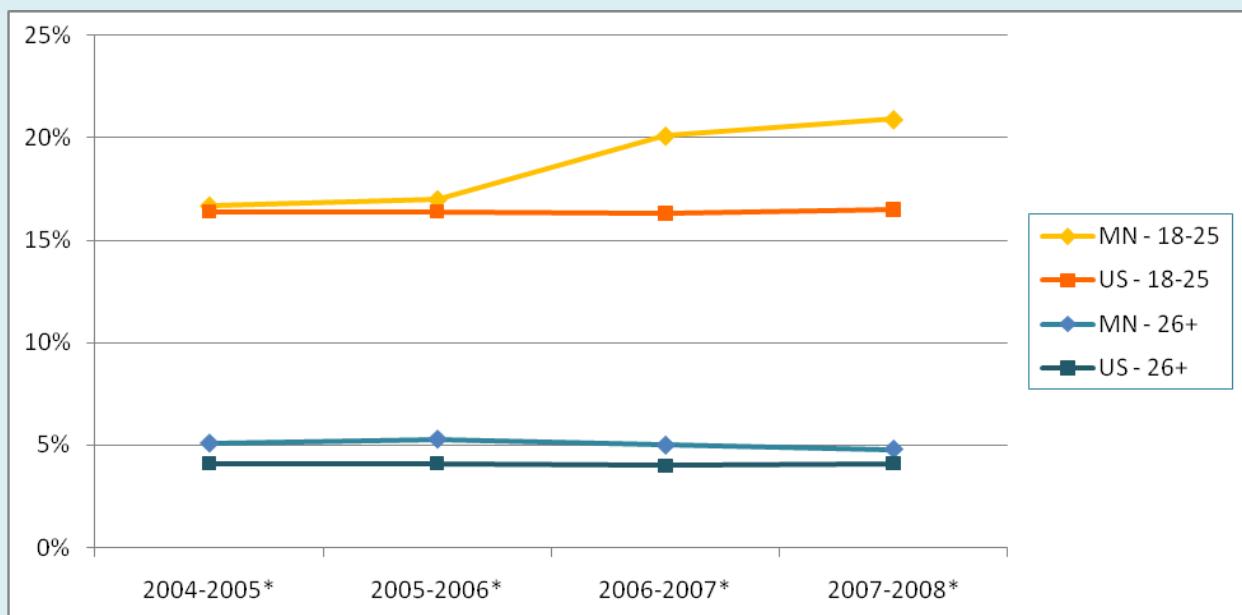
## Other Drugs

### Adults

- Reported adult past 30-day marijuana use is higher than the national average. Among 18-25 year olds in Minnesota, rates increase from 17% in 2004/2005 to 21% in 2007/2008 (Figure 8). *National Survey on Drug Use and Health*
- Reported adult use in the past 12 months of illicit drugs other than marijuana has remained consistently lower in Minnesota than the national average (Figure 9). *National Survey on Drug Use and Health*
- The rate of adults on probation for drug offenses in Minnesota's seven-county metro area decreased from 40.7 per 10,000 population in 2006 to 36.6 per 10,000 in 2009. In comparison, rates in non-metro counties increased from 28.0 per 10,000 to 33.9 per 10,000 during that same period. *Probation Survey*

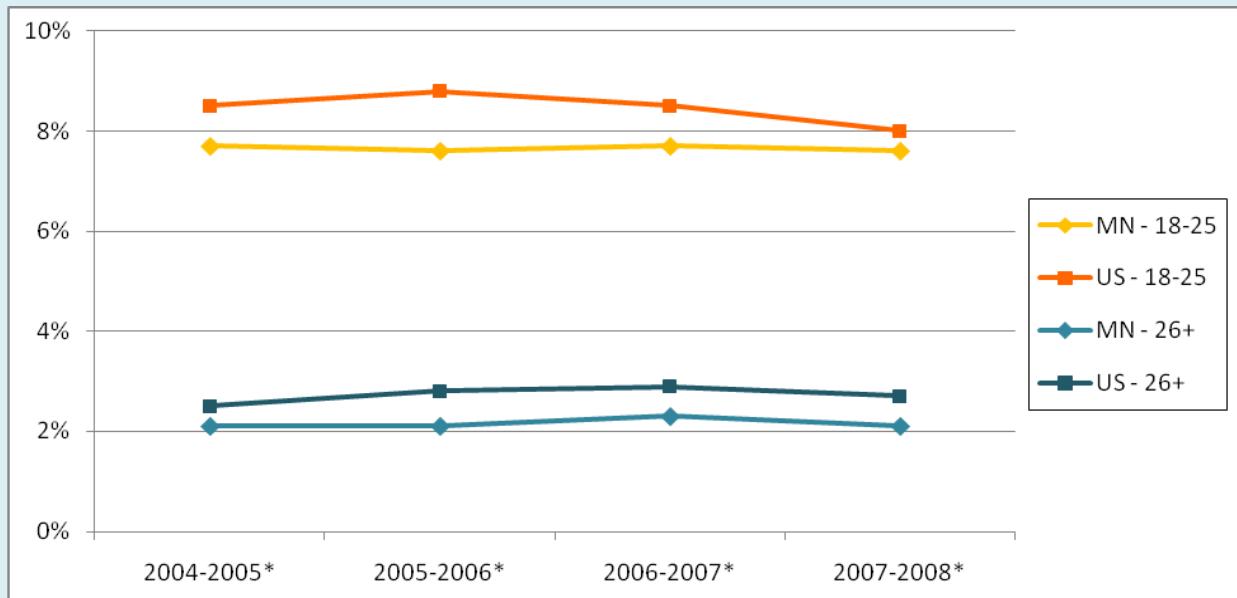
**Figure 8. Adult Past 30-Day Marijuana Use**

Source: *National Survey on Drug Use and Health*



**Figure 9. Adult Past 12-Month Illicit Drug Use (Other than Marijuana)**

Source: National Survey on Drug Use and Health

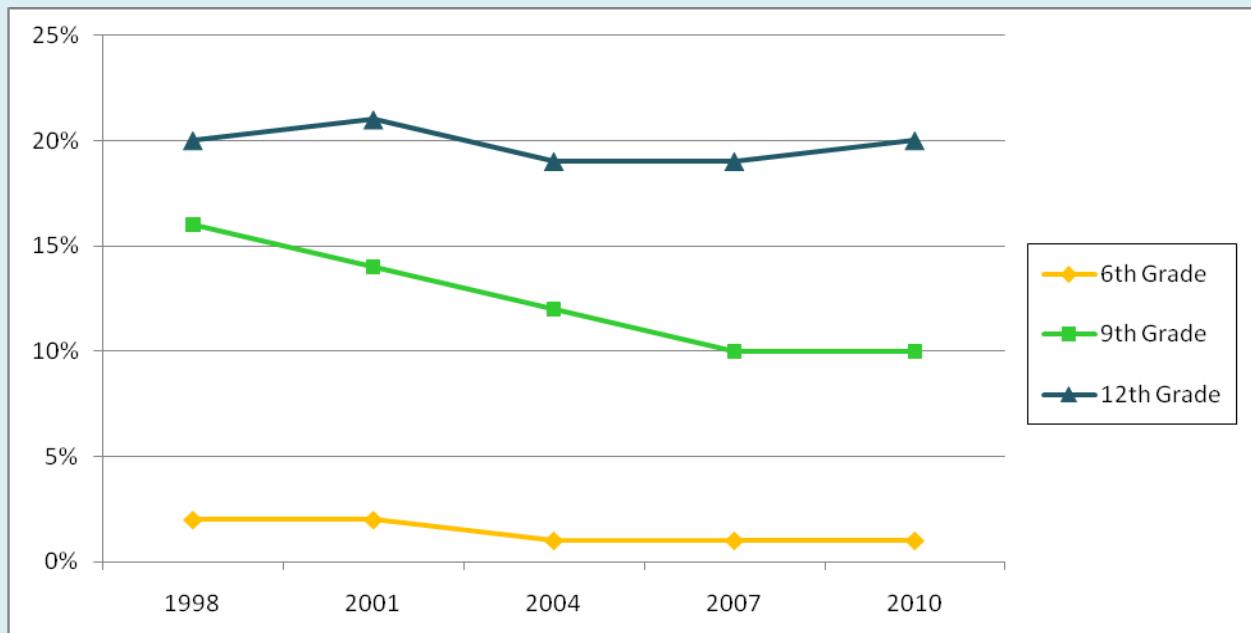


#### Youth

- Rates of reported past-month marijuana use in Minnesota remained unchanged from 2007 to 2010 for 6th graders (1%) and 9th graders (10%), but increased slightly among 12<sup>th</sup> graders: 19% to 20% (*Minnesota Student Survey*)
- Methamphetamine use reported by youth dropped from 4.85 in 2001 to 1% in 2010 among 9th graders. Among 12th graders, reported use dropped from 6% to 1% in this same time period. (*Minnesota Student Survey*)
- In 2010, youth prescription drug abuse (use only to get high) among 9<sup>th</sup> graders was higher for females than males; among 12<sup>th</sup> graders the reverse was true (Figure 11). Rates of prescription drug abuse among Minnesota youth did not change from 2007 to 2010. (*Minnesota Student Survey*)
- The rate of juveniles on probation for drug offenses in Minnesota's seven-county metro area decreased slightly from 3.8 per 10,000 population in 2006 to 3.6 per 10,000 in 2009. In comparison, rates in non-metro counties increased from 4.2 per 10,000 to 6.5 per 10,000 during that same period. (*Probation Survey*)

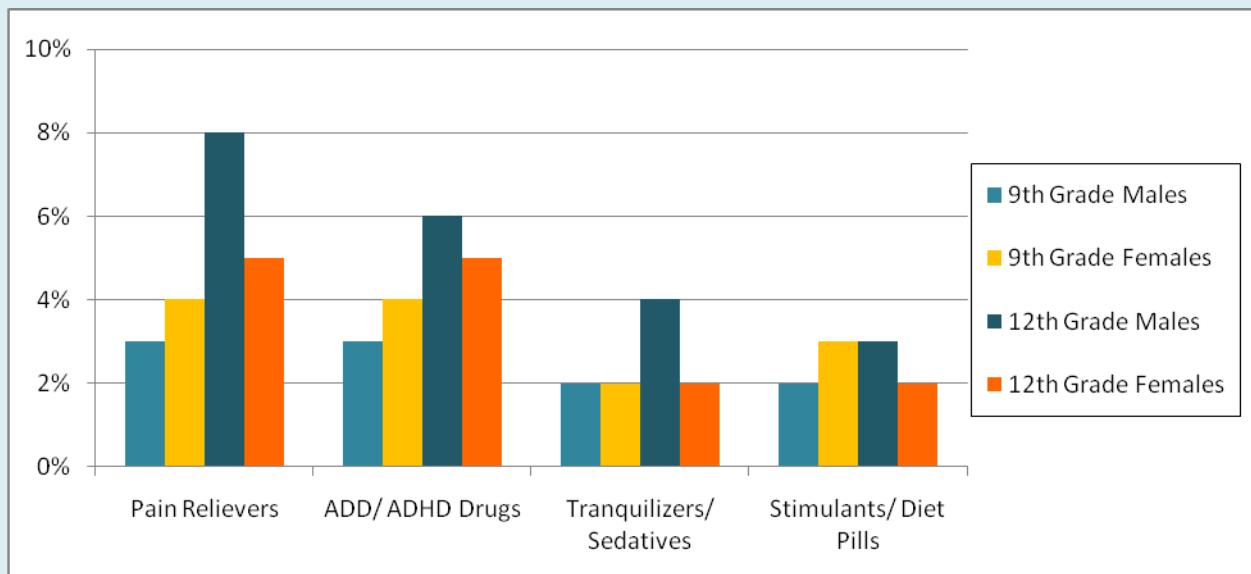
**Figure 10. Youth Reported Past 30-Day Marijuana Use**

Source: Minnesota Student Survey



**Figure 11. Youth Reporting Abuse of Prescription Drugs**

Source: Minnesota Student Survey



## **Using the Profile**

The goal of the Minnesota State Epidemiological Profile is to depict ATOD consumption and consequence patterns statewide. The authors have presented a comprehensive array of ATOD-related data which will be updated annually. We acknowledge that the universe of available data is vast and expansive and encourage the use of additional data not presented in the Epi Profile. Should you wish to use alternative data sources for prevention planning, or require assistance interpreting data presented in the profile, we suggest consulting with a local evaluator or epidemiologist.

## 1. Introduction

### Methods

#### Purpose of the State Epidemiological Profile of Substance Use

Minnesota's State Epidemiological Profile of Substance Use (Epi Profile) has been created under the supervision of the State Epidemiological Outcomes Workgroup (SEOW) funded by the Substance Abuse and Mental Health Services Administration's (SAMHSA) Center for Substance Abuse Prevention (CSAP).

Minnesota's SEOW membership is wide and varied. Led by the Department of Human Services Alcohol and Drug Abuse Division (ADAD) and staffed through a subcontract with the Minnesota Institute of Public Health, the SEOW works closely with the Minnesota Strategic Prevention Framework State Incentive Grant (SPF SIG) Advisory Council and Management Team.

#### *Evidence-based Planning and Needs Assessment*

The Epi Profile is grounded in CSAP's Strategic Prevention Framework (SPF). The SPF is a five-step prevention planning model consisting of 1) Assessment (of both need and resources), 2) Capacity Building, 3) Planning, 4) Implementation, and 5) Evaluation. The Epi Profile serves as an important first step in the Needs Assessment phase of the SPF by summarizing and characterizing consumption patterns and consequences related to the use of alcohol, tobacco and other drugs in Minnesota.

The Epi Profile was created to help the state and communities determine prevention needs based upon available data on substance use and consequent outcomes. Accordingly, the Epi Profile can be used for a variety of purposes. State-level administrators may use the profile to prepare applications for federal funding or they may use it to monitor prevention-related trends in local communities to which they administer grants. Community-level prevention planners may use the profile, in conjunction with the interactive website located at [www.sumn.org](http://www.sumn.org), to assess the relative importance of substance related problems in their communities or to apply for grant funding. Overall, the Profile is intended to help all audiences in Minnesota make decisions based on existing evidence and demonstration of need.

The Epi Profile contains numerous indicators of substance use and consequences—it is up to each community to determine which indicators are of highest priority. Priority setting involves assessment of the problems, the community's capacity to address each problem, and community readiness. Problem assessment entails looking at: magnitude (how many youth are reporting alcohol use), severity (how does our community compare with the region and the state), and time trends (is youth alcohol consumption increasing or decreasing from year to year).

The SEOW views this Epi Profile as a "living document." That is, it will be updated and revised annually. The SEOW intends to improve upon the current content and structure of the Epi Profile based upon the availability of data and feedback from experts and users. The data included in the Epi Profile are also available on the SEOW's new interactive website, located at [www.sumn.org](http://www.sumn.org). Users of the site can create their own tables, graphs and maps, and find links to relevant articles, community resources and tools.

## Profile Overview and Format

In order to provide a variety of data, the Epi Profile casts a wide net over the universe of available substances and related consequences. Substances and consequences in the Epi Profile are grouped in the following categories: Alcohol, Tobacco or Other Drugs (ATOD).

This document is formatted with these categories in mind. The Profile is divided into sections pertaining to statewide ATOD *consumption* patterns (measures of substance use), related *consequences* (negative outcomes associated with use) and *risk and protective factors* (influencing consumption). For each substance, consumption patterns are presented first, followed by consequence measures and then risk and protective factors. Sections 2, 3 and 4 pertain to alcohol; sections 5, 6 and 7 pertain to tobacco, and sections 8, 9 and 10 pertain to illicit drugs.

### Outcomes Based Prevention



## Data Descriptions

Each section containing statewide data includes various data indicators (the unit of measurement). Indicators, data sources and key findings are presented in data descriptions followed by raw indicator data. Data descriptions include a brief overview about the indicator(s), citations of data sources and bullets with some key findings.

***It is important to note that the key findings provide a snapshot of the data and are not intended to be exhaustive. The profile user should review the raw data from their own community's perspective and supplement these key findings with their own.***

## Data Presentation

Whenever possible, the Profile presents data according to as many dimensions as possible. These include: gender, age, race/ethnicity, metro/non-metro and some combinations thereof. Breaking-out data along these dimensions can be a helpful tool for persons or communities interested in specific populations or making comparisons among groups. However, sometimes they produce numbers so small that they are unsuitable for publication in the Profile. Small numbers and rates can be misleading and are questionable for planning and assessment purposes. For example, an indicator presented by race may be unrepresentative if the race sample from which it is drawn is too small. Thresholds for presenting and withholding data vary according to the data source and the nature of the original sample. Refer to the **Data Source** section for specific rules used in the Profile.

## Definitions and Technical Notes

For more detailed explanations of survey sample, census, rate, count, and other definitions please see the “Tools” section of the SEOW website: [www.sumn.org](http://www.sumn.org).

### *Survey Sample*

In a *sample survey*, only part of the total population is approached for information. The data are then 'expanded' or 'weighted' to make inferences about the whole population. The survey sample is the set of observations taken from a subset of the population for the purpose of obtaining information about the entire population. The Minnesota Survey of Adult Substance Use and the Behavioral Risk Factor Surveillance System survey use samples to represent the state population at large.

In cases where data is presented from such studies, the reader is provided with the percent of the population only, not raw number of respondents.

### *Census*

A census is an enumeration of people at a particular time. Unlike a sample based survey, a census surveys an entire population. The Minnesota Student Survey (MSS) is a census of all schools in Minnesota. In a census, schools may decline to participate. In 2007, 91% of publicly operating school districts participated in the MSS.

Because answers to MSS questions were derived from a census of all schools, data is presented both in raw number and in percent terms.

### *Rate*

Rates are ratios, calculated by dividing the numerator by the denominator. In epidemiology, a rate is the frequency with which a health event occurs in a defined population. The components of the rate are the raw number (numerator) and the population (denominator). In a fraction, the numerator is the number on top—the number which is divided. The denominator is the number on the bottom—the number you are dividing by. In the Profile, rates are presented per 1,000 or 100,000 of the population and are noted accordingly. Be sure to reference each data sheet for the denominator.

Incidence rates differ from prevalence rates. Incidence refers to the frequency of development of a *new* illness in a population in a certain period of time, normally one year. Prevalence refers to the current number of people suffering from an illness in a given year; this number includes all those who may have been diagnosed in prior years, as well as in the current year.

A percent is the ratio of a number to 100; percent means “per hundred.” Proportions are a part, share, or portion of its relation to a whole often expressed as a percentage. Percentages in this profile based on Minnesota Student Survey data or Minnesota Survey of Adult Substance Use data were calculated using a demographic-specific denominator. For example, the percent of male 12<sup>th</sup> graders in the seven-county metro area who reported drinking any alcohol in the past 30 days is based on the total number of male 12<sup>th</sup> graders in the seven-county metro area who responded to the survey question about 30 day alcohol use (not based on the total number of students in Minnesota who responded to this question.)

Rate ratios are presented in the Epi Profile, often comparing a Minnesota rate to a US rate (calculated by simply dividing the Minnesota rate by the US rate). A rate ratio of 1.00 indicates that the Minnesota rate equals the US rate. Over 1.00 indicates higher use, while less than 1.00 indicates lower use.

#### *Counts*

Many data sources in the Profile present official count data. These include, but are not limited to, death, arrest and corrections data. These data provide actual raw numbers reported to and collected by various state agencies. Whenever possible, raw numbers are provided along with percentages.

#### *Data Sources*

In order to best utilize the data presented in the Profile, we recommend the reader take time to review the data sources and descriptions below.

## Data Source: Alcohol-Related Disease Impact (ARDI)

**Description:** The Centers for Disease Control and Prevention (CDC) calculate Alcohol-Related Disease Impact (ARDI) estimates of alcohol-related deaths due to alcohol consumption. To do this, ARDI either calculates or uses pre-determined estimates of Alcohol-Attributable Fractions (AAFs)—that is, the proportion of deaths from various causes that are due to alcohol. These AAFs are then multiplied by the number of deaths caused by a specific condition (e.g., liver cancer) to obtain the number of alcohol-attributable deaths.

**Sponsored by:** Centers for Disease Control and Prevention (CDC)

**Geographic level:** National, State

**Frequency:** 2001-2005 average

### Strengths/weaknesses:

#### Strengths

- Provides alcohol-attributable mortality estimates for a number of diseases in addition to the total alcohol-related deaths
- Minnesota-specific alcohol-related deaths are available by gender, by age group, and by alcohol consumption levels

#### Weaknesses

- Based on BRFSS data, which is self-report
- BRFSS prevalence estimates are based on alcohol use during the past 30 days; former drinkers are not included in the calculations
- ARDI exclusively uses the underlying cause of death from vital statistics
- age-specific estimates of AAFs were only available for motor-vehicle traffic deaths

**Link to source:** <https://apps.nccd.cdc.gov/ardi/HomePage.aspx>

## Data Source: Behavioral Risk Factor Surveillance System (BRFSS)

**Description:** The BRFSS is a confidential telephone survey of adults age 18 years and older. Respondents are randomly selected in order to reflect the population of Minnesota.

**Sponsored by:** Centers for Disease Control and Prevention (CDC)

**Geographic level:** National, State

**Frequency:** Data collected and reported annually

**Missing values:** In order to capture population characteristics such as race and ethnicity, percentages are weighted to reflect the composition of the state. Accordingly, small values are omitted from the Profile to avoid inaccurate representation of gender, age or racial and ethnic groups. On data sheets which include BRFSS data, the Profile omits values where the un-weighted sample size for the denominator was less than 30.

### **Strengths/weaknesses:**

#### Strengths

- Standardized and comparable across states
- Trend data available since 1984

#### Weaknesses

- Telephone non-coverage-(e.g., 2000 Census estimates that MN had 1.1% households with no phone).
- Non-response bias; bias is reduced by weighting.
- Self-report/response bias

**Link to source:** <http://www.cdc.gov/brfss>

## Data Source: Boat & Water Safety Division

**Description:** The Boat & Water Safety Division collects data on alcohol-related boating citations as well as boating fatalities. Data were obtained upon request.

**Sponsored by:** Minnesota Department of Natural Resources

**Geographic level:** State

**Frequency:** Data collected annually

### **Strengths/weaknesses:**

#### Strengths

- Trend data available since 1986

#### Weaknesses

- Arrest data reflect levels of enforcement as opposed to actual frequency of boating under the influence

## Data Source: CDC Wonder Compressed Mortality Data

**Description:** The Compressed Mortality database contains mortality and population counts for all U.S. counties for the years 1979 to 2005. Counts and rates of death can be obtained by underlying cause of death, state, county, age, race, sex, and year. The International Classification of Diseases 9th Revision (ICD 9) codes are used to specify underlying cause of death for years 1979 - 1998. Beginning in 1999, cause of death is specified with the International Classification of Diseases 10th Revision (ICD 10) codes.

**Sponsored by:** Centers for Disease Control and Prevention (CDC)

**Geographic level:** National, State, County

**Frequency:** Data collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Standardized and comparable across states
- Trend data available since 1979

#### Weaknesses

- Race categories are limited to White, Black or African American and Other
- ICD 10 codes differ substantially from ICD 9 codes

**Link to source:** <http://wonder.cdc.gov/mortSQL.html>

## Data Source: Fatality Analysis Reporting System (FARS)

**Description:** FARS data are derived from a census of fatal traffic crashes within the 50 States, District of Columbia, and Puerto Rico. To be included in FARS, a crash must involve a motor vehicle traveling on a trafficway customarily open to the public and result in the death of a person (occupant of a vehicle or a non-motorist) within 30 days of the crash.

**Sponsored by:** National Center for Statistics and Analysis (NCSA) of the National Highway Traffic Safety Administration (NHTSA)

**Geographic level:** National, State, County

**Frequency:** Data collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Standardized and comparable across states
- Data are gathered from the State's own source documents and are coded on standard FARS forms
- Trend data available since 1975

#### Weaknesses

- Includes fatalities only, not all crashes from impaired driving

**Link to source:** <http://www-fars.nhtsa.dot.gov>

## Data Source: Minnesota Center for Health Statistics Data

**Description:** Mortality data, including lung, bronchus and trachea cancer deaths, cirrhosis deaths, suicides and homicides are obtained upon request. Statistics on smoking during pregnancy are from the Minnesota County Health Tables. Statistics on HIV/AIDS cases involving intravenous drug use (IDU) as the mode of exposure are from the HIV/AID Prevalence and Mortality Tables.

**Sponsored by:** Minnesota Department of Health

**Geographic level:** State, County

**Frequency:** Collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Collected consistently by the state
- Trend data available

#### Weaknesses

- The MN Center for Health Statistics does not report on details on which lung, bronchus and trachea cancer deaths were caused by cigarette smoking, which cirrhosis deaths were caused by alcohol consumption, or which suicide and homicide deaths were caused by alcohol or other drug consumption.
- Data on smoking during pregnancy is self-reported

**Link to source:** [http://www.health.state.mn.us/divs/chs/top\\_2.htm](http://www.health.state.mn.us/divs/chs/top_2.htm) and  
<http://www.health.state.mn.us/divs/idepc/diseases/hiv/hivsurvrpts.html>

## Data Source: Minnesota Department of Corrections Data

**Description:** The probation survey is designed to collect data on Minnesota probationers. The definition of probationer is: "All probationers, regardless of conviction status, who were under the supervision of a probation agent as part of a court order at any time including those ordered to pay restitution, complete community service or monitoring."

The inmate profile captures the number of incarcerated persons in the state of Minnesota twice a year.

**Sponsored by:** Minnesota Department of Corrections

**Geographic level:** State, County

**Frequency:** Probation survey data are collected and reported annually. The inmate profile is compiled bi-annually.

### **Strengths/weaknesses:**

#### Strengths

- Trend data available since 1981 for inmate profile and 1983 for probation survey

#### Weaknesses

- Both the probation survey and the inmate profile count offenders only once and may exclude cases that involve drug or chemical convictions. The probation survey counts an offender once in the most serious category. The inmate profile counts an inmate once, by governing sentence which is typically the sentence with the greatest release date (which may or may not be the most serious offense).

**Link to source:** <http://www.doc.state.mn.us>

## Data Source: Minnesota Office of Traffic Safety Data—Minnesota Motor Vehicle Crash Facts and Minnesota Impaired Driving Facts

**Description:** Crash Facts provides summary statistical information on crashes, deaths and injuries in Minnesota. Impaired Driving Facts provides similar statistics, but is focused on DWI violations and consequences of impaired driving in Minnesota.

Cost of Alcohol Related Traffic Crashes, Fatalities and Injuries are based on estimates provided by the National Safety Council. They do not attempt to include "comprehensive costs" but just direct costs of traffic crashes, deaths and injuries due to medical expense, property damage and lost productivity. Other procedures that attempt to include comprehensive costs (e.g. those used by US Dept of Transportation) result in total cost estimates about 3 times greater than those calculated here.

**Sponsored by:** Minnesota Office of Traffic Safety

**Geographic level:** State, County

**Frequency:** Data collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Although traffic crash reporting thresholds vary somewhat from state to state, all states produce an annual report summarizing traffic crash statistics. Minnesota's "Crash Facts" has some comparability to similar reports in all other states.
- Impaired Driving Facts provides detailed information about DWIs, alcohol-related crashes, and injuries and fatalities resulting from those crashes.
- Alcohol-related traffic death statistics are available since 1984; DWI statistics are available since 1990.

#### Weaknesses

- Alcohol-related injuries are less well documented than fatalities

**Link to source:** <http://www.dps.state.mn.us/ots>

## Data Source: Minnesota Student Survey (MSS)

**Description:** The MSS is a confidential and anonymous self-administered survey given to 6<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup> grade students attending Minnesota public, charter and tribal schools. Most schools elect to participate in the survey; in 2010, this included 88% of eligible school districts.

Although the data are not presented here, the survey is also administered to area learning centers, juvenile correction facilities and private schools electing to participate.

**Sponsored by:** Minnesota schools, the Minnesota Department of Education, the Minnesota Department of Health, the Minnesota Department of Human Services, and the Minnesota Department of Public Safety

**Geographic level:** State, County, 7-County Metro and Non-Metro Regions

**Frequency:** Data collected and reported every three years

**Missing Values:** The Profile omits values where the number of total respondents for each question, and for each demographic category, is less than 30. For example, if less than 30 female, Hispanic 6<sup>th</sup> graders respond to a particular question we will suppress the results. This is a rule imposed by the SEOW in order to protect the confidentiality of the survey respondents.

The results of the Minnesota Student Survey are also available at a county level. Data Privacy requirements mandate that data are presented in a manner such that no individual student can be identified through the presentation of the results. As part of the Data Privacy practices, the results are also presented in a manner that no individual school district could be identified through the results. Therefore, for counties that have only one school district, the results are not presented. Results are also withheld for counties in which the minimum number for student participation was not met.

### **Strengths/weaknesses:**

#### Strengths

- “Census” of schools, not sample
- School districts get their own data
- Trend data available since 1992 on some questions

#### Weaknesses

- 6<sup>th</sup> graders not asked all drug questions
- Some school districts do not participate. (in 2010, 12% of the school districts declined to participate)
- Student participation within the school district can vary widely.
- Reporting biases associated with self-report data

#### **Link to source:**

[http://education.state.mn.us/mde/Learning\\_Support/Safe\\_and\\_Healthy\\_Learners/Minnesota\\_Student\\_Survey/index.html](http://education.state.mn.us/mde/Learning_Support/Safe_and_Healthy_Learners/Minnesota_Student_Survey/index.html)

Demographics:

As the only statewide survey of youth, the Profile relies heavily on data collected from the Minnesota Student Survey.

Characteristics of students who participated in the 2007 Minnesota student survey are follows:

| All Minnesota Student Survey Respondents (2010) |                                    |        |       |        |       |
|---|------------------------------------|--------|-------|--------|-------|
|   |                                    | Male   |       | Female |       |
|   |                                    | N (#)  | %     | N (#)  | %     |
| Total   |                                    | 65,160 | 49.8% | 65,748 | 50.2% |
| Grade   | 6th                                | 23,382 | 35.9% | 23,405 | 35.6% |
|   | 9th                                | 23,520 | 36.1% | 23,867 | 36.3% |
|   | 12th                               | 18,258 | 28.0% | 18,476 | 28.1% |
| Region  | 7-County Metro Region              | 35,308 | 54.2% | 36,101 | 54.9% |
|   | Non-Metro Region                   | 29,852 | 45.8% | 29,647 | 45.1% |
| Race/Ethnicity                                  | White                              | 46,860 | 71.9% | 47,720 | 72.6% |
|   | African-American, African or Black | 3,752  | 5.8%  | 3,422  | 5.2%  |
|   | Native American                    | 1,080  | 1.7%  | 871    | 1.3%  |
|   | Asian American/Pacific Islander    | 3,428  | 5.3%  | 3,545  | 5.4%  |
|   | Hispanic/Latino                    | 2,889  | 4.4%  | 2,793  | 4.2%  |
|   | Mixed Race                         | 3,967  |       |        |       |
|   | Don't know/No Answer               | 3,184  | 4.9%  | 2,605  | 4.0%  |

## Data Source: Minnesota Survey of Adult Substance Use (MNSASU)

**Description:** The MNSASU is a statewide telephone survey conducted in 2004/2005 by DHS. The primary objective of this project is to obtain current estimates of the number of adults in the general population in Minnesota who are abusing or dependent on alcohol or other drugs and are in need of treatment. The prevalence of *substance* abuse and dependence and need for treatment were assessed for the total population, and by region, race and ethnicity, gender, age group, and immigration status. The population for this survey included Minnesota residents 18 years of age or older and non-institutionalized. The study involved a random digit dial telephone survey with 16,891 adults in Minnesota.

The sample was stratified by region, and African Americans, American Indians, Latinos, Hmong and other Asian Americans were over-sampled to ensure adequate numbers of respondents to provide reliable estimates for these sub-groups. The survey was administered by the University of Minnesota, School of Public Health in both English and Spanish. The weighted response rate was 55%, with a cooperation rate of 67%. These data are self-reported.

**Sponsored by:** Minnesota Department of Human Services, Performance Measurement and Quality Improvement

**Geographic level:** State, 7-County Metro and Non-Metro Regions

**Frequency:** Next year data will be available: 2011

### **Strengths/weaknesses:**

#### Strengths

- The survey methods employed over-sampling and weighting to accurately reflect the Minnesota population
- Trends will be available when the survey is next administered

#### Weaknesses

- Telephone non-coverage-(e.g., 2000 Census estimates that MN had 1.1% households with no phone).
- Non-response bias; bias is reduced by weighting.
- Self-report/response bias

### **Link to source:**

[http://www.dhs.state.mn.us/main/idcplg?IdcService=GET\\_FILE&RevisionSelectionMethod=LatestReleased&Rendition=Primary&allowInterrupt=1&noSaveAs=1&dDocName=dhs\\_id\\_055443](http://www.dhs.state.mn.us/main/idcplg?IdcService=GET_FILE&RevisionSelectionMethod=LatestReleased&Rendition=Primary&allowInterrupt=1&noSaveAs=1&dDocName=dhs_id_055443)

## Data Source: National Institute on Alcohol Abuse and Alcoholism (NIAAA)

**Description:** The NIAAA collects data on volume beverage and ethanol consumption in gallons for states, as well as per capita ethanol consumption. Data are presented for beer, wine, spirits, and all three combined.

**Sponsored by:** National Institutes of Health

**Geographic level:** National, State, and Census Regions

**Frequency:** Data are collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Trend data available since 1970
- Collected consistently

#### Weaknesses

- Data not available by county or by demographic group

#### **Link to source:**

<http://www.niaaa.nih.gov/Resources/DatabaseResources/QuickFacts/AlcoholSales/default.htm>

## Data Source: National Survey on Drug Use and Health (NSDUH)

**Description:** The NSDUH is a nationwide survey involving in-home interviews with approximately 70,000 randomly selected individuals age 12 and older. Data are presented as two-year averages. Accordingly, the Profile presents combined data from 2003/2004, 2004/2005, 2005/2006, and 2006/2007.

**Sponsored by:** Substance Abuse and Mental Health Services Administration (SAMHSA)

**Geographic level:** National, State

**Frequency:** Data are presented as two-year averages

### **Strengths/weaknesses:**

#### Strengths

- Trend data available since 1972

#### Weaknesses

- No state data by Race/Ethnicity

**Link to source:** <http://oas.samhsa.gov/stateTrends.htm>

## Data Source: Safe and Healthy Minnesota Schools (SAHMS)

**Description:** The SAHMS Portal contains data, by school district, on disciplinary incidents involving alcohol, tobacco and other drugs. Districts report all disciplinary incidents that result in an out-of-school suspension/removal of one day or longer, and expulsions/exclusions. In addition, SAHMS contains Minnesota Students Survey data and data on ATOD programs provided by each district.

**Sponsored by:** Minnesota Department of Education

**Geographic level:** State, Region, County, School District

**Frequency:** Data collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Data collected consistently
- Trend data available since the 2004/2005 school year
- Data available at the sub-state level

#### Weaknesses

- Does not reflect the actual number of youth possessing or using alcohol, tobacco or other drugs at school—only those caught and disciplined

**Link to source** (You must create an account, if you don't currently have one, to view this portal):

<https://education.state.mn.us/MIDMS/login.jsf?AppId=EDPPublic>

## Data Source: Shoveling Up II: The Impact of Substance Abuse on Federal, State, and Local Budgets

**Description:** The Shoveling UP II report, based on three years of research and analysis, assess the costs of tobacco, alcohol and illegal and prescription drug abuse to all levels of government using the most conservative assumptions.

**Sponsored by:** The National Center on Addiction and Substance Abuse (CASA) at Columbia University

**Geographic level:** National and State

**Frequency:** Published in 2009, using 2005 data.

### **Strengths/weaknesses:**

#### Strengths

- Shows spending for each sector

#### Weaknesses

- Spending is not broken down by substance

**Link to source:** [http://www.casacolumbia.org/templates/publications\\_reports.aspx](http://www.casacolumbia.org/templates/publications_reports.aspx)

## Data Source: Smoking-Attributable Mortality, Morbidity, and Economic Costs (SAMMEC)

**Description:** SAMMEC derives smoking-attributable mortality (SAM) using an attributable-fraction formula. The Adult SAMMEC module provides the smoking-attributable fractions (SAFs) of deaths for 19 smoking-related diseases are calculated using sex-specific smoking prevalence and relative risk (RR) of death data for current and former smokers aged 35 and older. The Adult module also provides the average annual smoking-attributable productivity losses in dollars. The MCH Smoking Attributable Health Outcomes report displays the smoking-attributable fraction (SAF), smoking-attributable mortality (SAM), and smoking-attributable years of potential life lost (YPLL) for each of the diseases for which maternal smoking is a significant risk factor. The MCH module also provides smoking-attributable neonatal expenditures in dollars.

**Sponsored by:** Centers for Disease Control and Prevention (CDC)

**Geographic level:** National, State

**Frequency:** Adult module—five year reports: 1997-2001 and 2000-2004; MCH module—single year reports for 1999 through 2004

### **Strengths/weaknesses:**

#### Strengths

- Provides smoking attributable mortality rate (SAM) for each of the 19 diseases in addition to the total SAM rate
- Minnesota-specific smoking-attributable deaths are available by gender

#### Weaknesses

- The attributable-fraction methodology calculates smoking-attributable deaths using smoking prevalence and number of deaths for the current year. However, most smoking-attributable deaths are the result of smoking in previous decades, during which smoking rates were higher. During periods where smoking prevalence is declining, the attributable-fraction (AF) methodology will tend to underestimate the number of deaths caused by smoking.
- The estimates in Adult SAMMEC do not account for deaths from cigar smoking, pipe smoking, and smokeless tobacco use.
- The productivity loss estimates are also understated because they do not include the value of work missed because of smoking-related illness, other smoking-related absenteeism, excess work breaks, or the effects of secondhand smoke.
- Smoking status is obtained through maternal self reports.

**Link to source:** <http://apps.nccd.cdc.gov/sammec/index.asp>

## Data Source: SYNAR Data

**Description:** The Synar Amendment requires states to have laws prohibiting the sale of tobacco products to those younger than 18 and to conduct annual random, unannounced inspections of a valid sample of tobacco retailers to ensure compliance. Statistics presented are the retailer violation rates (RVR) by Federal Fiscal Year (FFY).

**Sponsored by:** Center for Substance Abuse Prevention (CSAP)

**Geographic level:** National, State

**Frequency:** Data collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Compliance checks are conducted uniformly from state to state
- Trend data are available since 1997

#### Weaknesses

- There may be some variation in how compliance checks are conducted

**Link(s) to source:** Minnesota data: <http://prevention.samhsa.gov/tobacco/01synartable.aspx>

National data (CESAR Fax Vol. 16, Issue 41):

<http://www.cesar.umd.edu/cesar/cesarfax.asp?Date=&Topic=&Drug=&Pop=&Page=1>

## Data Source: Uniform Crime Reports (UCR)

**Description:** The Minnesota Bureau of Criminal Apprehension collects activity information from law enforcement agencies throughout the State of Minnesota. Uniform Crime Reports measure the amount of criminal activity within the State as collected and prepared from data submitted by individual law enforcement agencies.

The offense categories presented in the Profile are Part II offenses: liquor laws and narcotics arrests. The St. Paul Police Department does not submit Part II arrest data to the BCA

**Sponsored by:** Minnesota Bureau of Criminal Apprehension (BCA)

**Geographic level:** State, County

**Frequency:** Data collected and reported annually

### **Strengths/weaknesses:**

#### Strengths

- Trend data available since 1935
- UCR data for Minnesota are captured nationally in Crime in the United States, an annual publication of the Federal Bureau of Investigation (FBI)

#### Weaknesses

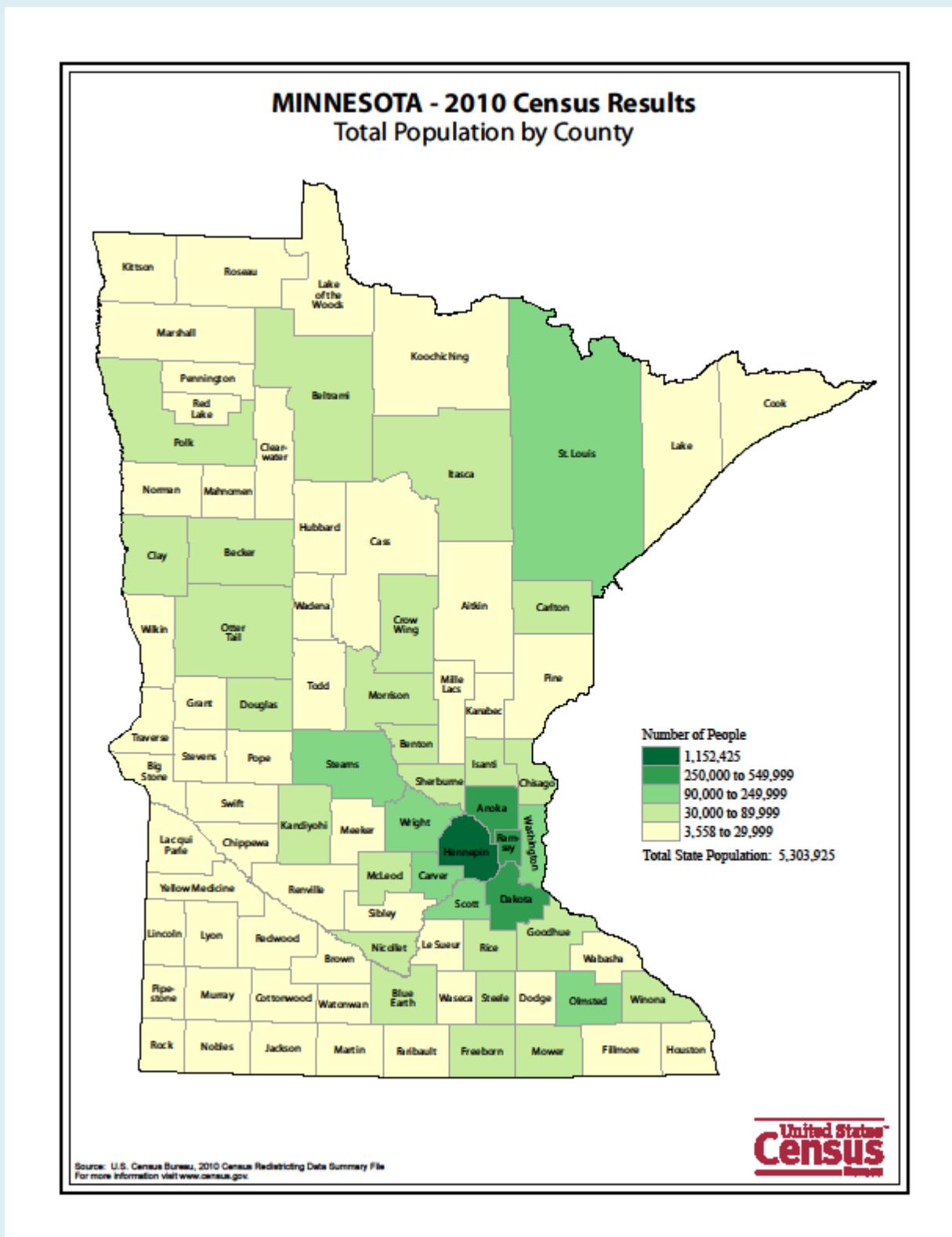
- “Criminal activity” consists of measurements involving offenses, clearances, and arrests all of which are subject to reporting biases
- Race/ethnicity is often determined by law enforcement and therefore may not be as accurate as self-reported status.

**Link to source:** Minnesota Uniform Crime Reports:

<http://www.dps.state.mn.us/bca/CJIS/Documents/Page-15-02.html>

Crime in the United States: <http://www.fbi.gov/ucr/ucr.htm>

## Population Snapshot



Minnesota, comprised of 87 counties, is the 12<sup>th</sup> largest state by area and home to approximately 5,303,925 people in 2010. According to 2009 US Census Bureau estimates, 76 percent of residents are aged 18 or older, and 13% are aged 65 or older. The 2008 inflation-adjusted median household income was \$57,795. Six and a half percent of Minnesota families were living below the poverty level, as were 9.7 percent of individuals.

According to the 2010 US Census estimates, approximately 1% of persons living in Minnesota identify as American Indian/Alaska Native. There are two tribes located in Minnesota, the Sioux and Ojibwe: four nations in the Sioux tribe and seven nations in the Ojibwe tribe. Members of other tribes have moved to Minnesota as well. About 31 percent of Minnesota's approximately 55,000 American Indians reside on reservation lands, another 35 percent live in the central cities of Minneapolis and St. Paul, and the rest live in communities throughout the state.<sup>1</sup>

Approximately 5% of persons living in Minnesota identify as African-American, African or Black only (not in combination with another race). "Minnesota was ranked 10th in the nation in 2000 in numbers of African immigrants living in the state. The number grew 85 percent in six years and is now estimated at between 60,000 and 90,000."<sup>2</sup>

According to the US Census estimates, the percentage of persons living in Minnesota who identified as Hispanic/Latino grew from 3% in 2000 to 5% in 2010. The number grew from 143,382 to 250,258. Origin or descent of Hispanics and Latinos in Minnesota include Mexican, Cuban Puerto Rican, Central or South American, and others.

The percentage of persons living in Minnesota who identified as Asian/Pacific Islander grew from 3% in 2000 to 4% in 2010. The fastest growing Asian communities in seven-county metro area during the 1990s were: Bangladeshi (up 475%), Samoan (up 340%), Pakistani (up 187%), Hmong (up 146%), Vietnamese (up 103%), and Thai (up 100%). The largest A/PI population in the Twin Cities is the Hmong community.<sup>3</sup>

Minnesota is divided into seven Alcohol, Tobacco and Other Drug Prevention Regions. The Minnesota Prevention Region Coordinators (RPCs) support communities in their efforts to prevent alcohol, tobacco and other drug (ATOD) abuse. The RPCs help communities by building regional relationships to enhance prevention efforts, identifying and providing training opportunities, and providing technical assistance. Learn more about the RPCs at <http://www.rpcmn.org/>.

According to the United Health Foundation's America's Health Rankings, Minnesota was the healthiest state in the nation from 2003 to 2006. The state's rank dropped to second in 2007, then to fourth in 2008, and finally to sixth in 2009 and 2010. One of the state's challenges cited in the Rankings report is a high prevalence of binge drinking<sup>4</sup>.

1. CHS Administration Handbook, 3rd Edition Chapter 10, Page 6 of 7 Section III: Governance Structures and Authorities American Indian Tribal Governments
2. *Immigrants from Africa swelling Minnesota's black population.* The Associated Press; September 12, 2007. Retrieved on September 18, 2008 from: <http://minnesota.publicradio.org/display/web/2007/09/12/censusblackpop/>
3. Council on Asian-Pacific Minnesotans. *Asian & Pacific Islander Minnesota Profile.* Retrieved on October 30, 2008 from [http://www.capm.state.mn.us/pdf/Minnesota\\_Profile.pdf](http://www.capm.state.mn.us/pdf/Minnesota_Profile.pdf)
4. United Health Foundation. *America's Health Rankings 2010: Minnesota.* Retrieved on April 3, 2011 from <http://www.americashealthrankings.org/yearcompare/2009/2010/MN.aspx>

## 2. Alcohol Use in Minnesota: Consumption Patterns

### Recent Alcohol Use

**About the Indicator:** Alcohol is the most frequently used drug nationally and statewide, and is associated with a number of adverse health consequences<sup>1</sup>.

Reported use of alcohol in the past 30 days is a common measure of recent alcohol use. Adult is defined as persons aged 18 and older. Youth include 6<sup>th</sup>, 9<sup>th</sup>, and 12<sup>th</sup> graders.

#### **Data Source(s):**

General Consumption: National Institute on Alcohol Abuse and Alcoholism (NIAAA)

Adults: National Survey on Drug Use and Health (NSDUH), Behavioral Risk Factor Surveillance System (BRFSS) and the Minnesota Survey of Adult Substance Use (MNSASU)

Youth: Minnesota Student Survey (MSS)

#### **Section Summary:**

##### Adults

- In 2007/2008, Minnesota adults reported higher rates of past 30 day alcohol use than the national average (73% vs. 61% among adults age 18-25; and 67% vs. 54% among adults age 26 years and older). *National Survey on Drug Use and Health*
- Another national survey found similar results in 2009—62% of Minnesotans ages 18 and over reported drinking in the past 30 days while 54% of adults nationally reported past month use. *Behavioral Risk Factor Surveillance System*

##### Youth

- Past 30 day alcohol use declined among students from 2001 to 2010 (down by 25%).
- Alcohol use varied by age: only 4% of 6th graders reported recent alcohol use while 41% of 12th graders reported recent alcohol use in 2010.
- Unlike adults, female students reported similar rates of alcohol use as males.

### Note on the Sources of Data for Adult Consumption

Data on adult consumption of alcohol (as well as tobacco and drugs) were obtained from three different sources: National Survey on Drug Use and Health (NSDUH), Behavioral Risk Factor Surveillance System (BRFSS) and the Minnesota Survey of Adult Substance Use (MNSASU). These surveys vary with regard to methodology, response rate and findings—see table on the following page.

It's important to understand the strengths and limitations of each data source before determining which findings you will use. For example, let's take a look at the indicator *Adults reporting any alcohol use in the past 30 days*.

According to NSDUH, 62.7% of survey respondents in Minnesota reported any alcohol use within the past 30 days in 2007/2008 (data are presented as two-year averages). That percent includes persons aged 12 and older. Reported past 30 day alcohol use among 18- to 25-year-olds was 73.3% and among persons aged 26 and older was 66.8%.

According to BRFSS, 61.5% of survey respondents in Minnesota reported any alcohol use within the past 30 days in 2009. That percent includes persons aged 18 and older. Reported past 30 day alcohol use among 18- to 24-year-olds (note different age category from NSDUH) was 49.9%, among 25- to 34-year-olds was 59.5%, and among 35- to 44-year-olds was 70%.

According to MNSASU, 60% of survey respondents in Minnesota reported any alcohol use within the past 30 days in 2004/2005. That percent includes persons aged 18 and older. Reported past 30 day alcohol use among 18- to 20-year-olds was 39%, among 21- to 24-year-olds was 66%, and among 25- to 44- year-olds was 66%.

Looking at the results from the three surveys, it is relatively safe to say that approximately 61% of Minnesota adults reported past 30 day alcohol use. It is a bit less clear if you want to report on past-month drinking among young adults (ages 18 through 24 or 25)—the actual percentage likely lies between 50% and 73%. One important factor to keep in mind is that BRFSS and MNSASU are telephone surveys. Past survey results have not included cell phones, which young adults are more likely to use in place of a land-line. One benefit of the MNSASU is that the sample size is large enough to report data on young adults by region and not just at the state-level (to report NSDUH or BRFSS data by age-group at the sub-state level would require averaging several years together or creating synthetic estimates based on regional demographics).

If you have questions about which source(s) to use, consult with an epidemiologist or email [sumn@miph.org](mailto:sumn@miph.org).

|                       | <b>National Survey on Drug Use and Health (NSDUH)</b>  | <b>Behavioral Risk Factor Surveillance System (BRFSS)</b>   | <b>MN Survey of Adult Substance Use (MNSASU)</b>   |
|-----------------------|--|---|--|
| Latest Survey         | 2007/2008  | 2009  | 2004/2005  |
| Response Rates        | Nation: 75.7%  | State of MN: 42.18%   | State of MN: 55%   |
| Geographic levels     | National, State, Sub-state   | National, State   | State of MN, Sub-state (Regions)   |
| Sample Design         | List of addresses for each sample segment ("Counting and Listing"): 7,200 Census tracts—sample includes 1 per tract, 8 per sub-state sampling region, 2 per quarter. 140,000 dwelling units selected from listings | Disproportionate stratified sample (DSS) design: Phone numbers divided into high-and medium-density groups and sampled separately to obtain a probability sample of all households with telephones. | Choosing the house: Sampled active phone numbers through random digit dialing (RDD).<br><br>Within the house: "next birthday method"           |
| Target Population     | Ages 12 +  | Adults Age 18 +   | Adults Age 18 +  |
| How data is collected | Face to Face, computer-assisted, self-administered interview (ASCAI), Computer Assisted Personal Interviewing (CAPI)   | Telephone, Computer Assisted Telephone Interviews (CATI)  | Telephone, Computer Assisted Telephone Interviews (CATI)   |
| Demographic Variables | Gender, Age, Race/ethnicity, Education, Health   | Gender, Age, Race/ethnicity   | Gender, Age group, Race/ethnicity, Region, Foreign Born  |
| Type of Weighting     | Weighted combination of: Direct estimates for area and estimates for area based on national regression model and predictors for area   | Post stratification weighting serves as a blanket adjustment for non-coverage and non-response, and forces the total number of cases to equal population estimates for each region                  | Data were weighted so that the final sample reflected the actual gender, age, geographic and racial/ethnic distribution of adults in the state |
| Common Measures       | Alcohol, Tobacco, Drugs  | Alcohol, Tobacco  | Alcohol, Tobacco, Drugs  |

NSDUH: <http://www.oas.samhsa.gov/nsduh/methods.cfm>

BRFSS: [http://www.cdc.gov/brfss/technical\\_infodata/surveydata/2008.htm](http://www.cdc.gov/brfss/technical_infodata/surveydata/2008.htm) and <ftp://ftp.cdc.gov/pub/Data/Brfss/userguide.pdf>  
MNSASU:

[http://www.dhs.state.mn.us/main/idcplg?IdcService=GET\\_FILE&RevisionSelectionMethod=LatestReleased&Rendition=Primary&allowInterrupt=1&noSaveAs=1&dDocName=dhs\\_id\\_055443](http://www.dhs.state.mn.us/main/idcplg?IdcService=GET_FILE&RevisionSelectionMethod=LatestReleased&Rendition=Primary&allowInterrupt=1&noSaveAs=1&dDocName=dhs_id_055443)

**Substance:** Alcohol

**Data Source:** NIAAA

**Per Capita Ethanol Consumption in Gallons among Persons Age 14 and Older**

| Beer              | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|-------------------|------|------|------|------|------|------|
| <b>MN</b>         | 1.25 | 1.21 | 1.23 | 1.18 | 1.15 | 1.16 |
| <b>US</b>         | 1.23 | 1.22 | 1.21 | 1.19 | 1.19 | 1.21 |
| <b>Rate ratio</b> | 1.02 | 0.99 | 1.02 | 0.99 | 0.97 | 0.96 |
|                   |      |      |      |      |      |      |
| Wine              | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| <b>MN</b>         | 0.28 | 0.29 | 0.31 | 0.32 | 0.32 | .32  |
| <b>US</b>         | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | .38  |
| <b>Rate ratio</b> | 0.85 | 0.85 | 0.89 | 0.89 | 0.86 | 0.84 |
|                   |      |      |      |      |      |      |
| Spirits           | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| <b>MN</b>         | 0.87 | 0.9  | 0.93 | 0.96 | 0.93 | 0.97 |
| <b>US</b>         | 0.65 | 0.67 | 0.68 | 0.7  | 0.71 | 0.73 |
| <b>Rate ratio</b> | 1.34 | 1.34 | 1.37 | 1.37 | 1.31 | 1.33 |
|                   |      |      |      |      |      |      |
| Total             | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| <b>MN</b>         | 2.4  | 2.41 | 2.47 | 2.47 | 2.40 | 2.45 |
| <b>US</b>         | 2.2  | 2.22 | 2.23 | 2.24 | 2.27 | 2.31 |
| <b>Rate ratio</b> | 1.09 | 1.09 | 1.11 | 1.10 | 1.06 | 1.06 |

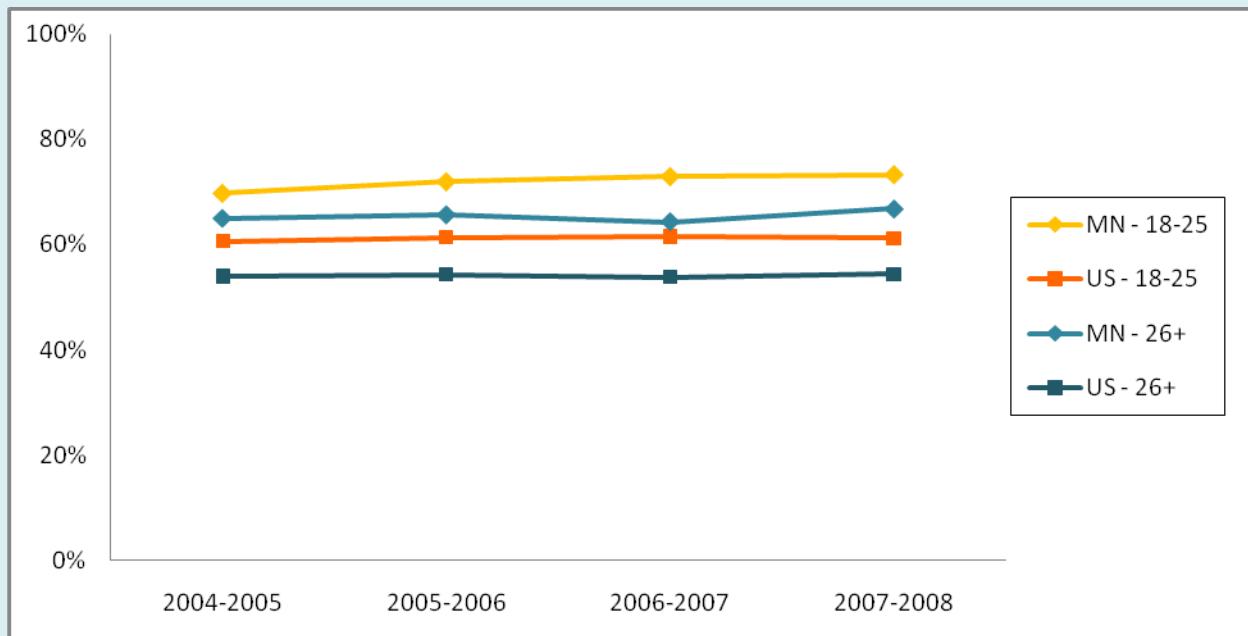
**Volume of Alcoholic Beverages Consumed in 1,000 Gallons**

| Beer      | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>MN</b> | 112,735   | 110,741   | 113,509   | 109,109   | 107,021   | 108,608   |
| <b>US</b> | 6,327,394 | 6,338,388 | 6,383,382 | 6,354,809 | 6,431,869 | 6,550,633 |
|           |           |           |           |           |           |           |
| Wine      | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      |
| <b>MN</b> | 8,725     | 9,307     | 10,041    | 10,488    | 10,477    | 10,520    |
| <b>US</b> | 583,479   | 614,318   | 637,769   | 662,255   | 687,317   | 711,788   |
|           |           |           |           |           |           |           |
| Spirits   | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      |
| <b>MN</b> | 8,627     | 9,050     | 9,410     | 9,785     | 9,474     | 9,999     |
| <b>US</b> | 363,704   | 381,087   | 389,994   | 406,012   | 420,219   | 432,629   |
|           |           |           |           |           |           |           |
| Total     | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      |
| <b>MN</b> | 130,087   | 129,098   | 132,960   | 129,382   | 126,972   | 129,127   |
| <b>US</b> | 7,274,577 | 7,333,793 | 7,411,145 | 7,423,076 | 7,539,405 | 7,695,050 |

**Substance:** Alcohol

**Data Source:** NSDUH

***Adults Reporting Any Use of Alcohol within the Past 30 Days***



| Minnesota                            | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Total current alcohol use (%)</b> | <b>61.0%</b>      | <b>61.7%</b>      | <b>60.7%</b>      | <b>62.7%</b>      |
| Ages 12 thru 17                      | 19.2%             | 18.5%             | 17.2%             | 17.0%             |
| Ages 18 thru 25                      | 69.7%             | 71.9%             | 72.9%             | 73.3%             |
| Ages 26 and Over                     | 65.0%             | 65.7%             | 64.3%             | 66.8%             |
| United States                        | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
| <b>Total current alcohol use (%)</b> | <b>51.1%</b>      | <b>51.4%</b>      | <b>51.0%</b>      | <b>51.4%</b>      |
| Ages 12 thru 17                      | 17.1%             | 16.6%             | 16.3%             | 15.3%             |
| Ages 18 thru 25                      | 60.7%             | 61.4%             | 61.6%             | 61.2%             |
| Ages 26 and Over                     | 54.0%             | 54.4%             | 53.9%             | 54.4%             |
| <b>Total current alcohol (%)</b>     | <b>2004-2005*</b> | <b>2005-2006*</b> | <b>2006-2007*</b> | <b>2007-2008*</b> |
| <b>MN:US**</b>                       | <b>1.19</b>       | <b>1.20</b>       | <b>1.19</b>       | <b>1.22</b>       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

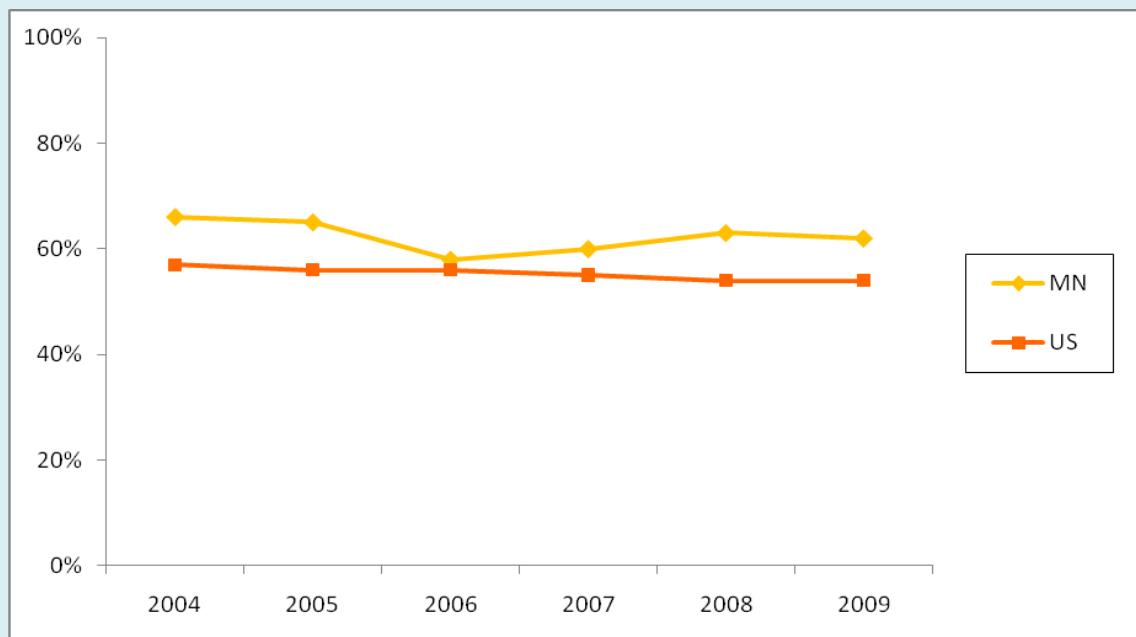
\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Alcohol

**Data Source:** BRFSS

***Adults Reporting Any Use of Alcohol within the Past 30 Days***



|           | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------|------|------|------|------|------|------|
| Minnesota | 66%  | 65%  | 58%  | 60%  | 63%  | 62%  |
| US        | 57%  | 56%  | 56%  | 55%  | 54%  | 54%  |
| MN:US*    | 1.17 | 1.16 | 1.05 | 1.09 | 1.17 | 1.15 |

\* Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

***Minnesota Adults Reporting Any Use of Alcohol in the Past 30 Days by Gender, Age, and Race/Ethnicity***

|                       |                  | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------------------|------|------|------|------|------|------|
| <b>Gender</b>         | Male             | 72%  | 72%  | 64%  | 66%  | 70%  | 67%  |
|                       | Female           | 61%  | 58%  | 54%  | 54%  | 56%  | 56%  |
| <b>Age</b>            | Ages 18 thru 24  | 66%  | 62%  | 46%  | 54%  | 52%  | 50%  |
|                       | Ages 25 thru 34  | 74%  | 70%  | 65%  | 69%  | 66%  | 66%  |
|                       | Ages 35 thru 44  | 71%  | 71%  | 69%  | 65%  | 73%  | 70%  |
|                       | Ages 45 thru 54  | 70%  | 68%  | 63%  | 63%  | 71%  | 70%  |
|                       | Ages 55 thru 64  | 61%  | 63%  | 57%  | 58%  | 65%  | 65%  |
|                       | Ages 65 and over | 51%  | 51%  | 44%  | 47%  | 48%  | 44%  |
| <b>Race/Ethnicity</b> | White            | 68%  | 67%  | 60%  | 62%  | 65%  | 63%  |
|                       | Black            | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |
|                       | Hispanic         | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |
|                       | Other            | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |

N/A = Not available if the un-weighted sample size for the denominator was < 30

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Alcohol

**Data Source:** MNSASU

***Adults Reporting Any Use of Alcohol within the Past 30 Days***

| <b>Percent of Minnesota Adults Reporting any Use of Alcohol within the Past 30 Days by Gender, Age, Race/Ethnicity, and Region, 2004/2005</b> |                                 |             |               |
|---|---------------------------------|-------------|---------------|
|   |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 44.9%       | 32.9%         |
|   | Ages 21 thru 24                 | 74.4%       | 57.6%         |
|   | Ages 25 thru 44                 | 73.1%       | 60.2%         |
|   | Ages 45 thru 64                 | 68.2%       | 57.3%         |
|   | Ages 65 and over                | 53.5%       | 33.5%         |
| <br>  |                                 |             |               |
| <b>Race/Ethnicity</b>   | White                           | 69.2%       | 56.6%         |
|   | African American or Black       | 44.3%       | 24.5%         |
|   | American Indian                 | 73.6%       | 34.2%         |
|   | Asian American/Pacific Islander | 43.5%       | 24.6%         |
|   | Hispanic/Latino                 | 47.0%       | 19.4%         |
|   | Bi-Racial/Multi-Racial          | 51.6%       | 41.8%         |
| <br>  |                                 |             |               |
| <b>Region</b>   | Metro                           | 67.5%       | 56.0%         |
|   | Non-Metro                       | 66.4%       | 49.8%         |
|   | Total                           | 67.0%       | 53.1%         |

***Percent of Minnesota Adults Reporting any Use of Alcohol within the Past 30 Days by Race/Ethnicity and Region, 2004/2005***

|                       |                                 | <b>METRO*</b> | <b>NON-METRO</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> | White                           | 66.8%         | 58.9%            |
|                       | African American or Black       | 34.4%         | 17.4%            |
|                       | American Indian                 | 47.6%         | 49.9%            |
|                       | Asian American/Pacific Islander | 33.6%         | 38.6%            |
|                       | Hispanic/Latino                 | 32.4%         | 33.2%            |
|                       | Bi-Racial/Multi-Racial          | 46.6%         | 47.1%            |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Alcohol

**Data Source:** MSS

***Students Reporting Any Use of Alcohol in the Past 30 Days***

| Minnesota                | 2001   | 2004   | 2007   | 2010   |
|--------------------------|--------|--------|--------|--------|
| Number reporting any use | 32,125 | 30,299 | 29,195 | 23,599 |
| Percent of all students  | 26.8%  | 25.4%  | 23.1%  | 20.0%  |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Any Use of Alcohol in the Past 30 Days by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 11,639 | 20% |
|                       | Female                             | 11,960 | 20% |
| <b>Grade</b>          | 6th                                | 1,598  | 40% |
|                       | 9th                                | 8,179  | 19% |
|                       | 12th                               | 13,822 | 41% |
| <b>Race/Ethnicity</b> | White                              | 18,079 | 20% |
|                       | African-American, African or Black | 817    | 14% |
|                       | American Indian                    | 376    | 22% |
|                       | Asian American/Pacific Islander    | 874    | 27% |
|                       | Hispanic/Latino                    | 1,080  | 40% |
| <b>Region</b>         | Metro                              | 12,061 | 19% |
|                       | Non-Metro                          | 11,538 | 21% |

***Minnesota Students Reporting Any Use of Alcohol in the Past 30 days by Gender and Grade, 2010***

|              |      | <b>Male</b> |     | <b>Female</b> |     |
|--------------|------|-------------|-----|---------------|-----|
|              |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b> | 6th  | 866         | 4%  | 732           | 3%  |
|              | 9th  | 3,809       | 18% | 4,370         | 20% |
|              | 12th | 6,964       | 42% | 6,858         | 39% |

**Minnesota Students Reporting Any Use of Alcohol in the Past 30 Days by Race/Ethnicity and Grade, 2010**

|                                 | 6th grade |    | 9th grade |     | 12th grade |     |
|---------------------------------|-----------|----|-----------|-----|------------|-----|
| Race/Ethnicity                  | N (#)     | %  | N (#)     | %   | N (#)      | %   |
| White                           | 866       | 3% | 5,676     | 18% | 11,517     | 42% |
| African-American or Black       | 105       | 4% | 333       | 17% | 379        | 27% |
| American Indian                 | 76        | 9% | 172       | 31% | 128        | 44% |
| Asian American/Pacific Islander | 61        | 3% | 346       | 15% | 467        | 27% |
| Hispanic/Latino                 | 150       | 7% | 532       | 29% | 398        | 40% |

**Race-Specific Data on Any Use of Alcohol in the Past 30 Days**

| White Students Reporting any Use of Alcohol in the Past 30 days by Gender and Grade, 2010                              |      |       |     |        |     |
|--|------|-------|-----|--------|-----|
|  |      | Male  |     | Female |     |
|  |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b>   | 6th  | 541   | 4%  | 345    | 2%  |
|  | 9th  | 2,586 | 17% | 3,090  | 19% |
|  | 12th | 5,757 | 44% | 5,760  | 41% |
| African-American, African or Black Students Reporting any Use of Alcohol in the Past 30 Days by Gender and Grade, 2010 |      |       |     |        |     |
|  |      | Male  |     | Female |     |
|  |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b>   | 6th  | 42    | 3%  | 63     | 5%  |
|  | 9th  | 179   | 17% | 154    | 17% |
|  | 12th | 211   | 30% | 168    | 24% |
| American Indian Students Reporting any Use of Alcohol in the Past 30 days by Gender and Grade, 2010                    |      |       |     |        |     |
|  |      | Male  |     | Female |     |
|  |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b>   | 6th  | 34    | 7%  | 42     | 10% |
|  | 9th  | 95    | 30% | 77     | 32% |
|  | 12th | 71    | 46% | 57     | 43% |
| Asian American/Pacific Islander Students Reporting any Use of Alcohol in the Past 30 Days by Gender and Grade, 2010    |      |       |     |        |     |
|  |      | Male  |     | Female |     |
|  |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b>   | 6th  | 36    | 3%  | 25     | 2%  |
|  | 9th  | 165   | 16% | 181    | 15% |
|  | 12th | 251   | 30% | 216    | 24% |

| <b>Hispanic/Latino students Reporting any Use of Alcohol in the Past 30 Days by Gender and Grade, 2010</b> |      |             |     |               |     |
|--|------|-------------|-----|---------------|-----|
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6th  | 68          | 6%  | 82            | 8%  |
|  | 9th  | 278         | 29% | 254           | 29% |
|  | 12th | 209         | 44% | 189           | 37% |

***Minnesota Students Reporting Any Use of Alcohol in the Past 30 Days by Race/Ethnicity and Region, 2010***

|                       |                                 | <b>Metro</b> |     | <b>Non-Metro</b> |     |
|-----------------------|---------------------------------|--------------|-----|------------------|-----|
|                       |                                 | N (#)        | %   | N (#)            | %   |
| <b>Race/Ethnicity</b> | White                           | 8,450        | 20% | 9,629            | 21% |
|                       | African-American or Black       | 682          | 14% | 135              | 15% |
|                       | American Indian                 | 121          | 19% | 255              | 24% |
|                       | Asian American/Pacific Islander | 733          | 14% | 141              | 15% |
|                       | Hispanic/Latino                 | 685          | 22% | 395              | 22% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Age at First Use of Alcohol

**About the Indicator:** Prevention planners may use data about age of first use as one factor in determining when to initiate prevention programs, policies, and practices. In addition, these data are valuable for reporting purposes. Some grantees are required to report age of first use as one their GPRA measures.

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Approximately 1 in 5 students reported having more than a few sips of alcohol at age 13 or younger.
- Average age at first use was the same in the seven-county metro area as in the non-metro counties.

**Substance:** Alcohol

**Data Source:** MSS

***Minnesota Students Reporting Age They First had More than a Few Sips of Alcohol by Gender, 2010***

|                                |        | <b>N (#)</b> | <b>%</b> |
|--------------------------------|--------|--------------|----------|
| <b>10 years old or younger</b> | Male   | 5,960        | 62%      |
|                                | Female | 3,678        | 38%      |
| <b>11 years old</b>            | Male   | 1,984        | 55%      |
|                                | Female | 1,607        | 45%      |
| <b>12 years old</b>            | Male   | 2,326        | 54%      |
|                                | Female | 1,977        | 46%      |
| <b>13 years old</b>            | Male   | 2,818        | 45%      |
|                                | Female | 3,477        | 55%      |
| <b>14 years old</b>            | Male   | 3,849        | 45%      |
|                                | Female | 4,636        | 55%      |
| <b>15 years old</b>            | Male   | 2,921        | 46%      |
|                                | Female | 3,408        | 54%      |
| <b>16 years old</b>            | Male   | 2,510        | 47%      |
|                                | Female | 2,883        | 53%      |
| <b>17 years old or older</b>   | Male   | 1,990        | 49%      |
|                                | Female | 2,082        | 51%      |

***Minnesota Students Reporting they First had More than a Few Sips of Alcohol at Age 13 or Younger, by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 13,088       | 22%      |
|                       | Female                             | 10,739       | 18%      |
|                       | Total                              | 23,827       | 20%      |
| <b>Grade</b>          | 6th                                | 6,937        | 16%      |
|                       | 9th                                | 11,233       | 27%      |
|                       | 12th                               | 5,657        | 17%      |
| <b>Race/Ethnicity</b> | White                              | 15,833       | 18%      |
|                       | African-American, African or Black | 1,290        | 22%      |
|                       | American Indian                    | 592          | 34%      |
|                       | Asian American/Pacific Islander    | 1,188        | 20%      |
|                       | Hispanic/Latino                    | 1,628        | 33%      |
| <b>Region</b>         | Metro                              | 11,776       | 18%      |
|                       | Non-Metro                          | 12,051       | 22%      |

**Average Age Minnesota Students First had More than a Few Sips of Alcohol by Gender and Grade,  
2010**

|                       |                        | MALE | FEMALE |
|-----------------------|------------------------|------|--------|
| <b>7-County Metro</b> | 6 <sup>th</sup> Grade  | 10   | 10     |
|                       | 9 <sup>th</sup> Grade  | 12   | 13     |
|                       | 12 <sup>th</sup> Grade | 14   | 15     |
| <b>Non-metro</b>      | 6 <sup>th</sup> Grade  | 10   | 10     |
|                       | 9 <sup>th</sup> Grade  | 12   | 13     |
|                       | 12 <sup>th</sup> Grade | 14   | 15     |
| <b>Total</b>          | 6 <sup>th</sup> Grade  | 10   | 10     |
|                       | 9 <sup>th</sup> Grade  | 12   | 13     |
|                       | 12 <sup>th</sup> Grade | 14   | 15     |

Note: Age category options on the survey include "10 or younger" and "17 or older." To calculate an average, these categories were set at 10 and 17 respectively. Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Recent Binge Drinking

**About the Indicator:** Binge drinking has been associated with alcohol-related injuries and deaths, as well as violence and crime. Up until 2006, BRFSS defined binge drinking as having 5 or more drinks in a row on one occasion<sup>2</sup>. In 2006, binge drinking was defined as 5 or more drinks for males or 4 or more drinks for females in a row on one occasion. MNSASU used the later definition; both captured binge drinking in the past 30 days. NSDUH defined binge drinking as five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days. MSS defined binge drinking as 5 or more drinks in a row on one occasion in the past 14 days (for males or females).

Adult is defined as persons aged 18 and older. Youth include 6th, 9th, and 12th graders.

**Data Source(s):** Adults: National Survey on Drug Use and Health (NSDUH), Behavioral Risk Factor Surveillance System (BRFSS) and the Minnesota Survey of Adult Substance Use (MNSASU)

Youth: Minnesota Student Survey (MSS)

*NOTE: Adult measure captures binge drinking in the past 30 days; youth measure captures binge drinking in the past 14 days.*

### Section Summary:

Adults:

- Minnesotans report higher rates of binge drinking than the national average.
- Males had higher rates of recent binge drinking than females, regardless of age, race/ethnicity, or region.
- Adult males aged 21 through 24 had the highest rate of recent binge drinking: 47.9% (MNSASU).

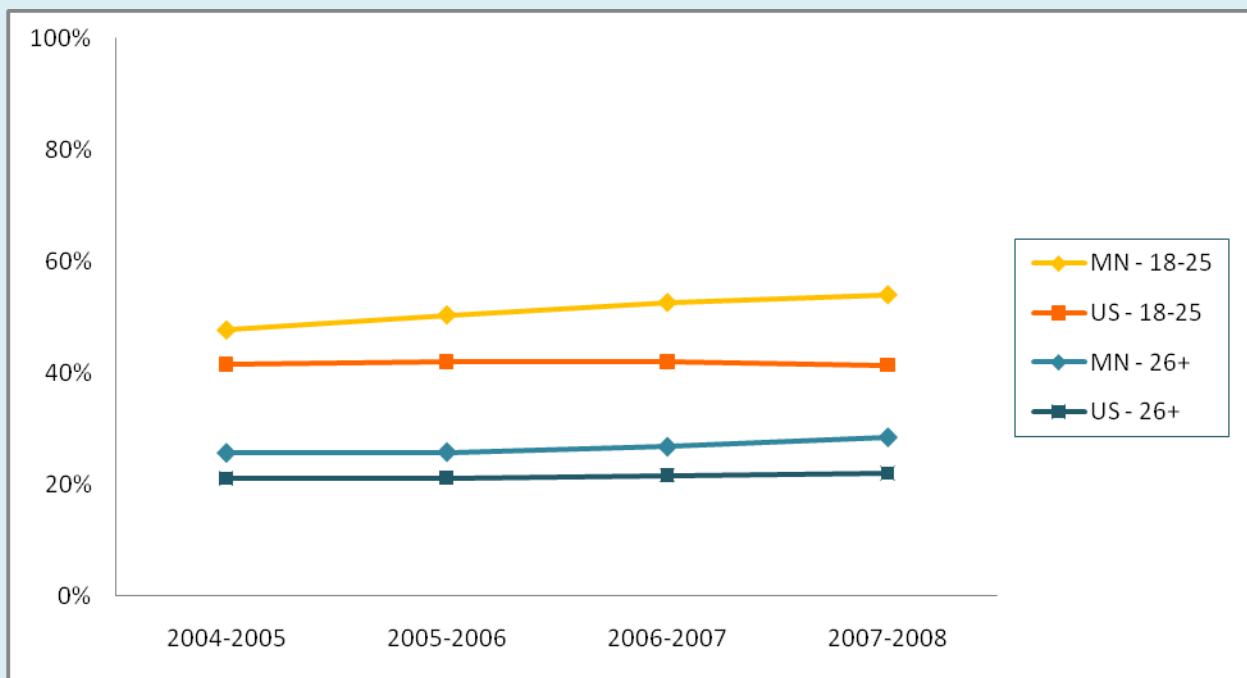
Youth:

- Binge drinking is more prevalent among 12th grade students than 9th grade students, and is higher among males as compared to females within 12th grade.
- Recent binge drinking declined among students from 2001 to 2010 (down by 31.3%).

**Substance:** Alcohol

**Data Source:** NSDUH

***Adults Reporting Binge Drinking in the Past 30 Days***



| Minnesota                               | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
|---|-------------------|-------------------|-------------------|-------------------|
| <b>Total current binge drinking (%)</b> | <b>27.4%</b>      | <b>27.9%</b>      | <b>28.8%</b>      | <b>30.1%</b>      |
| Ages 12 thru 17                         | 12.9%             | 12.8%             | 11.9%             | 10.5%             |
| Ages 18 thru 25                         | 47.6%             | 50.4%             | 52.6%             | 54.0%             |
| Ages 26 and Over                        | 25.7%             | 25.8%             | 26.7%             | 28.4%             |
| United States                           | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
| <b>Total current binge drinking (%)</b> | <b>22.7%</b>      | <b>22.8%</b>      | <b>23.2%</b>      | <b>23.8%</b>      |
| Ages 12 thru 17                         | 10.5%             | 10.1%             | 10.0%             | 9.3%              |
| Ages 18 thru 25                         | 41.5%             | 42.0%             | 42.0%             | 41.4%             |
| Ages 26 and Over                        | 21.1%             | 21.2%             | 21.7%             | 22.0%             |
| <b>Total current binge drinking (%)</b> | <b>2004-2005*</b> | <b>2005-2006*</b> | <b>2006-2007*</b> | <b>2007-2008*</b> |
| <b>MN: US**</b>                         | <b>1.21</b>       | <b>1.22</b>       | <b>1.24</b>       | <b>1.26</b>       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

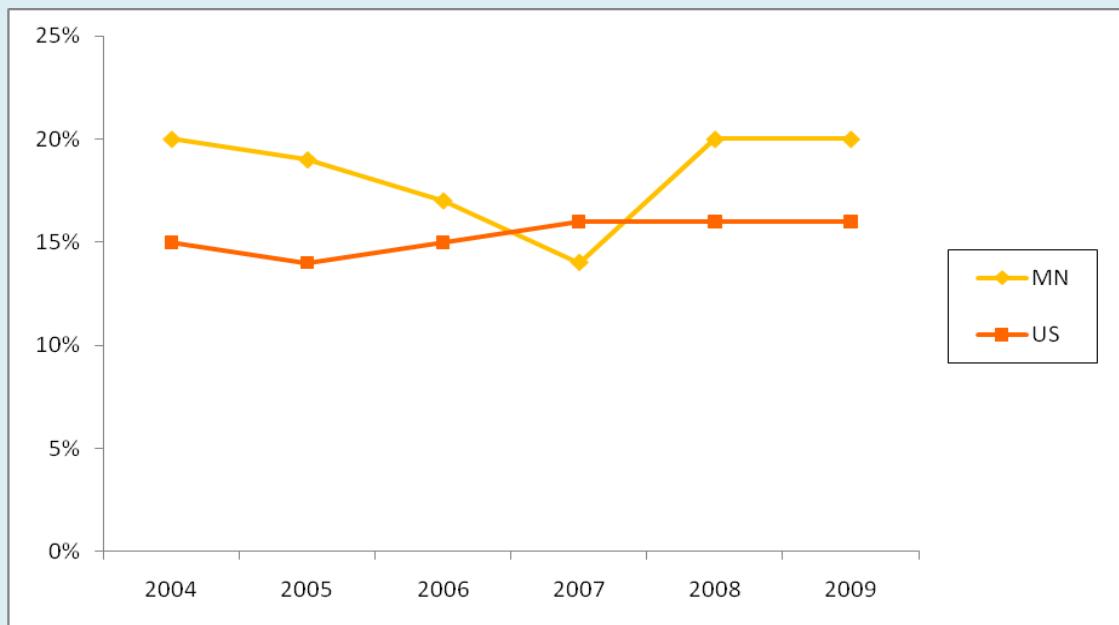
\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Alcohol

**Data Source:** BRFSS

### ***Adults Reporting Binge Drinking in the Past 30 Days***



|           | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------|------|------|------|------|------|------|
| Minnesota | 20%  | 19%  | 17%  | 14%  | 20%  | 20%  |
| US        | 15%  | 14%  | 15%  | 16%  | 16%  | 16%  |
| MN:US*    | 1.33 | 1.3  | 1.13 | 0.91 | 1.28 | 1.28 |

\* Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

### ***Minnesota Adults Reporting Binge Drinking in the Past 30 Days by Gender, Age, and Race/Ethnicity***

|                       |                  | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------------------|------|------|------|------|------|------|
| <b>Gender</b>         | Male             | 29%  | 29%  | 24%  | 19%  | 27%  | 25%  |
|                       | Female           | 12%  | 9%   | 12%  | 10%  | 13%  | 15%  |
| <b>Age</b>            | Ages 18 thru 24  | 37%  | 32%  | 27%  | 19%  | 29%  | 28%  |
|                       | Ages 25 thru 34  | 30%  | 31%  | 26%  | 23%  | 26%  | 28%  |
|                       | Ages 35 thru 44  | 22%  | 21%  | 22%  | 19%  | 28%  | 24%  |
|                       | Ages 45 thru 54  | 16%  | 16%  | 17%  | 12%  | 20%  | 23%  |
|                       | Ages 55 thru 64  | 11%  | 9%   | 9%   | 9%   | 12%  | 14%  |
|                       | Ages 65 and over | 3%   | 3%   | 4%   | 3%   | 3%   | 4%   |
| <b>Race/Ethnicity</b> | White            | 20%  | 19%  | 18%  | 14%  | 20%  | 21%  |
|                       | Black            | N/A  | N/A  | 12%  | 9%   | N/A  | N/A  |
|                       | Hispanic         | N/A  | N/A  | N/A  | 7%   | N/A  | 13%  |
|                       | Other            | N/A  | N/A  | 14%  | N/A  | N/A  | N/A  |

N/A = Not available if the un-weighted sample size for the denominator was < 30

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Alcohol

**Data Source:** MNSASU

***Adults Reporting Binge Drinking in the Past 30 Days***

| <b>Percent of Minnesota Adults Reporting Binge Drinking Within the Past 30 Days by Gender, Age, Race/Ethnicity, and Region, 2004/2005</b> |                                 |             |               |
|---|---------------------------------|-------------|---------------|
|   |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 35.1%       | 26.0%         |
|   | Ages 21 thru 24                 | 47.9%       | 29.3%         |
|   | Ages 25 thru 44                 | 30.8%       | 17.6%         |
|   | Ages 45 thru 64                 | 17.8%       | 8.6%          |
|   | Ages 65 and over                | 4.3%        | 1.3%          |
| <br>  |                                 |             |               |
| <b>Race/Ethnicity</b>   | White                           | 24.8%       | 14.0%         |
|   | African American or Black       | 12.5%       | 7.1%          |
|   | American Indian                 | 50.2%       | 19.0%         |
|   | Asian American/Pacific Islander | 16.3%       | 10.1%         |
|   | Hispanic/Latino                 | 25.9%       | 5.2%          |
|   | Bi-Racial/Multi-Racial          | 22.2%       | 15.1%         |
| <br>  |                                 |             |               |
| <b>Region</b>   | Metro                           | 23.1%       | 13.6%         |
|   | Non-Metro                       | 25.8%       | 13.3%         |
|   | Total                           | 24.3%       | 13.5%         |

| <b>Percent of Minnesota Adults Reporting Binge Drinking Within the Past 30 Days by Race/Ethnicity and Region, 2004/2005</b> |                                 |               |                  |
|---|---------------------------------|---------------|------------------|
|   |                                 | <b>METRO*</b> | <b>NON-METRO</b> |
| <b>Race/Ethnicity</b>   | White                           | 19.1%         | 19.5%            |
|   | African American or Black       | 9.7%          | 7.0%             |
|   | American Indian                 | 27.2%         | 33.8%            |
|   | Asian American/Pacific Islander | 13.4%         | 12.2%            |
|   | Hispanic/Latino                 | 14.9%         | 15.7%            |
|   | Bi-Racial/Multi-Racial          | 22.9%         | 13.0%            |

\*Metro refers to the seven-county metro area

Note: Adults are defined as persons aged 18 and older. Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Alcohol

**Data Source:** MSS

***Students\* Reporting having 5 or More Drinks in a Row on atLeast 1 Occasion within the Past 2 weeks***

| Minnesota                  | 2001   | 2004   | 2007   | 2010   |
|----------------------------|--------|--------|--------|--------|
| Number reporting binge use | 18,114 | 17,691 | 16,239 | 12,506 |
| Percent of all respondents | 23.3%  | 22.3%  | 20.2%  | 16.0%  |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Binge Drinking in the Past 2 Weeks by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 6,795 | 18% |
|                       | Female                             | 5,711 | 15% |
| <b>Grade</b>          | 9th                                | 4,224 | 10% |
|                       | 12th                               | 8,282 | 24% |
| <b>Race/Ethnicity</b> | White                              | 9,686 | 16% |
|                       | African-American, African or Black | 393   | 12% |
|                       | American Indian                    | 205   | 24% |
|                       | Asian American/Pacific Islander    | 471   | 12% |
|                       | Hispanic/Latino                    | 554   | 20% |
| <b>Region</b>         | Metro                              | 6,366 | 16% |
|                       | Non-Metro                          | 6,140 | 17% |

***Minnesota Students Reporting Binge Drinking in the Past 2 Weeks by Gender and Grade, 2010***

|              |      | Male  |    | Female |    |
|--------------|------|-------|----|--------|----|
|              |      | N (#) | %  | N (#)  | %  |
| <b>Grade</b> | 9th  | 2,078 | 10 | 2,146  | 10 |
|              | 12th | 4,717 | 29 | 3,565  | 21 |

***Minnesota Students Reporting Binge Drinking in the Past 2 Weeks by Grade and Race/Ethnicity, 2010***

| Race/Ethnicity                     | 9th grade |     | 12th grade |     |
|------------------------------------|-----------|-----|------------|-----|
|                                    | N (#)     | %   | N (#)      | %   |
| White                              | 2,792     | 9%  | 6,894      | 25% |
| African-American, African or Black | 174       | 9%  | 219        | 15% |
| American Indian                    | 107       | 19% | 98         | 34% |
| Asian American/Pacific Islander    | 192       | 9%  | 279        | 16% |
| Hispanic/Latino                    | 325       | 18% | 229        | 23% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

***Race-Specific Data on Binge Drinking in the Past 2 Weeks***

| <b>White Students Reporting Binge Drinking in the Past 2 Weeks by Gender and Grade, 2010</b>                              |      |             |     |               |     |
|---|------|-------------|-----|---------------|-----|
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 1,364       | 9%  | 1,428         | 9%  |
|   | 12th | 3,889       | 29% | 3,005         | 21% |
| <b>African-American, African or Black Students Reporting Binge Drinking in the Past 2 weeks by gender and grade, 2010</b> |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 94          | 9%  | 80            | 9%  |
|   | 12th | 148         | 21% | 71            | 10% |
| <b>American Indian students Reporting Binge Drinking in the Past 2 Weeks by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 61          | 19% | 46            | 19% |
|   | 12th | 61          | 39% | 37            | 28% |
| <b>Asian American/Pacific Islander Students Reporting Binge Drinking in the Past 2 Weeks by Gender and Grade, 2010</b>    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 88          | 8%  | 104           | 9%  |
|   | 12th | 164         | 20% | 115           | 13% |
| <b>Hispanic/Latino Students Reporting Binge Drinking in the Past 2 Weeks by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 178         | 19% | 147           | 17% |
|   | 12th | 131         | 28% |               | 19% |

**Minnesota Students Reporting Binge Drinking in the Past 2 Weeks by Race/Ethnicity and Region, 2010**

| Race/Ethnicity                     |  | Metro |     | Non-Metro |     |
|------------------------------------|--|-------|-----|-----------|-----|
|                                    |  | N (#) | %   | N (#)     | %   |
| White                              |  | 4,550 | 16% | 5,136     | 17% |
| African-American, African or Black |  | 322   | 11% | 71        | 13% |
| American Indian                    |  | 65    | 24% | 140       | 25% |
| Asian American/Pacific Islander    |  | 396   | 12% | 75        | 12% |
| Hispanic/Latino                    |  | 336   | 19% | 218       | 21% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Heavy Alcohol Use

**About the Indicator:** Daily alcohol use can pose an increased health risk depending on a combination of factors including quantity consumed and family medical history. Heavy use of alcohol is defined as average daily alcohol consumption greater than 2 drinks for males and 1 drink for females.

These data are only available for adults. Adults are defined as persons aged 18 and older.

**Data Source(s):** Behavioral Risk Factor Surveillance System (BRFSS)

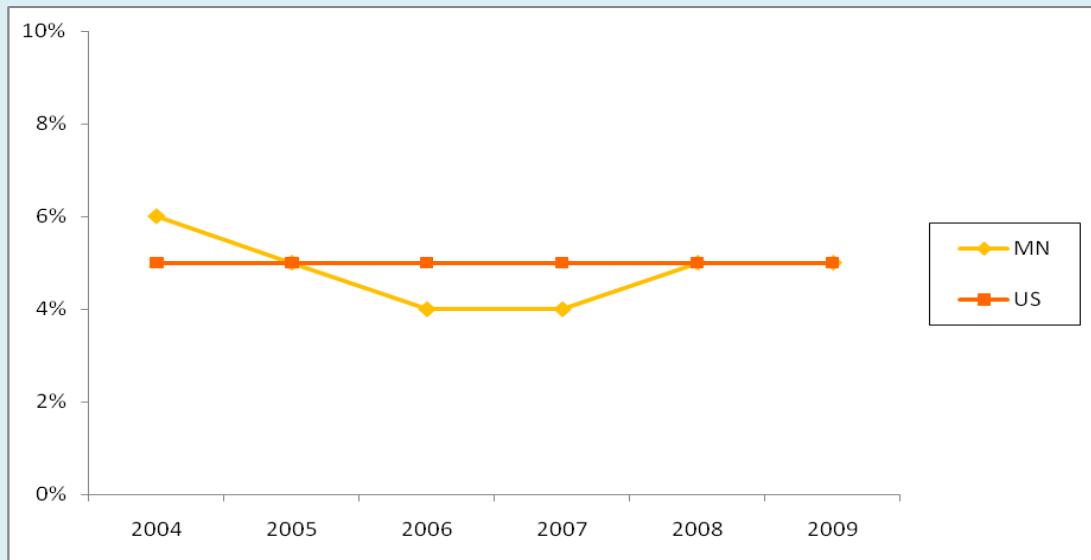
### Section Summary:

- In 2009, Minnesota's heavy drinking rate was similar to the national average.
- Minnesota women reported rates of heavy drinking as high as those of men in the state: 5%.
- Heavy drinking is highest among Minnesotans age 45-54.

**Substance:** Alcohol

**Data Source:** BRFSS

**Adults Reporting Average Daily Alcohol Consumption Greater than 2 Drinks (Male) or Greater than 1 Drink (Female) per Day**



|           | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------|------|------|------|------|------|------|
| Minnesota | 6%   | 5%   | 4%   | 4%   | 5%   | 5%   |
| US        | 5%   | 5%   | 5%   | 5%   | 5%   | 5%   |
| MN:US*    | 1.14 | 1.00 | 0.80 | 0.73 | 0.92 | 0.98 |

\* Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Minnesota Adults Reporting Average Daily Alcohol Consumption Greater than 2 Drinks (Male) or Greater than 1 Drink (Female) Per Day**

|                       |                  | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------------------|------|------|------|------|------|------|
| <b>Gender</b>         | Male             | 6%   | 5%   | 4%   | 4%   | 5%   | 5%   |
|                       | Female           | 5%   | 5%   | 4%   | 4%   | 4%   | 5%   |
| <b>Age</b>            | Ages 18 thru 24  | 12%  | 9%   | 4%   | 6%   | 3%   | 5%   |
|                       | Ages 25 thru 34  | 5%   | 4%   | 3%   | 2%   | 5%   | 5%   |
|                       | Ages 35 thru 44  | 5%   | 4%   | 5%   | 5%   | 5%   | 4%   |
|                       | Ages 45 thru 54  | 4%   | 6%   | 5%   | 4%   | 6%   | 7%   |
|                       | Ages 55 thru 64  | 5%   | 6%   | 4%   | 4%   | 5%   | 6%   |
|                       | Ages 65 and over | 3%   | 3%   | 2%   | 2%   | 3%   | 2%   |
| <b>Race/Ethnicity</b> | White            | 6%   | 5%   | 4%   | 4%   | 5%   | 5%   |
|                       | Black            | N/A  | N/A  | 1%   | 2%   | 3%   | 4%   |
|                       | Hispanic         | N/A  | N/A  | 9%   | N/A  | 6%   | 1%   |
|                       | Other            | N/A  | N/A  | 3%   | 2%   | N/A  | 1%   |

N/A = Not available if the un-weighted sample size for the denominator was < 30

Note: Adults are defined as persons aged 18 and older. Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Impaired Driving

**About the Indicator:** As a depressant, alcohol use interferes with coordination, judgment and reaction time. The following data sources contain reported behavior of impaired driving or riding with an impaired driver. Penalties related to impaired driving are included in the upcoming section. Adult is defined as persons aged 18 and older. Youth include 6th, 9th, and 12th graders.

**Data Source(s):** Adults: Behavioral Risk Factor Surveillance System (BRFSS); Youth: Minnesota Student Survey (MSS)

### Section Summary:

Adults:

- From 2000 to 2004, rates of reported impaired driving among Minnesota adults were similar to national rates—both declining over time.

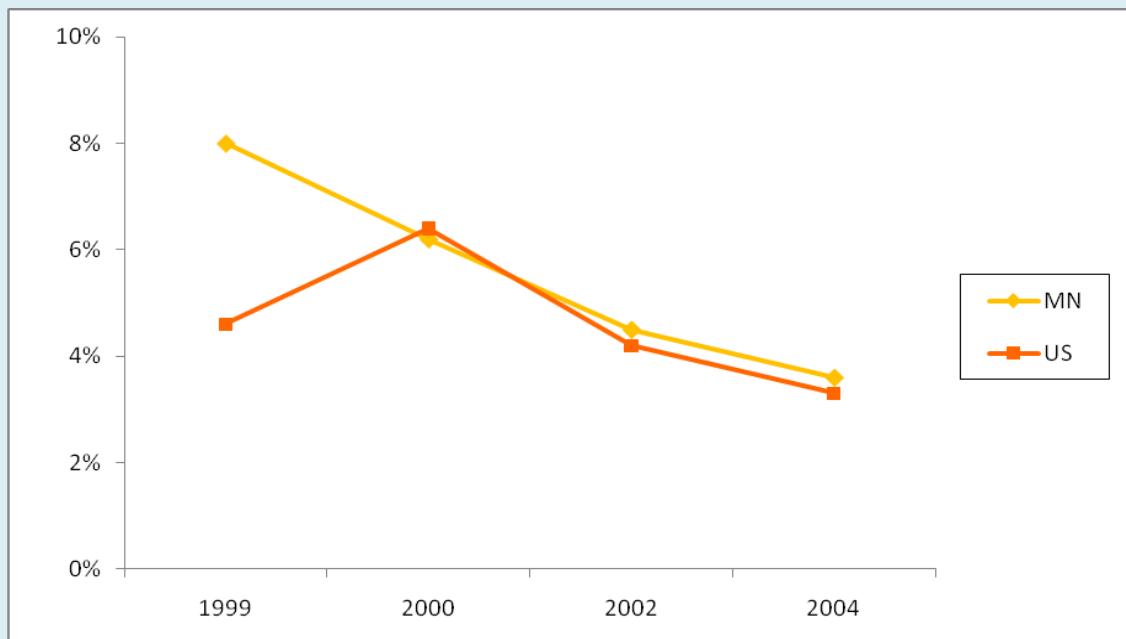
Youth:

- 19.0% of 12th grade students reported driving impaired in 2010 (down 36.7% from 2004).
- Impaired driving among 9<sup>th</sup> and 12<sup>th</sup> graders decreased 44.4% from 2001 to 2010.
- Riding with an impaired driver decreased among students from 2001 to 2007 (down 27.3%).

**Substance:** Alcohol

**Data Source:** BRFSS

***Adults Reporting Driving after having had “Perhaps Too Much to Drink” in the Past 30 Days***



|           | 1999 | 2000 | 2002 | 2004 |
|-----------|------|------|------|------|
| Minnesota | 8.0% | 6.2% | 4.5% | 3.6% |
| US        | 4.6% | 6.4% | 4.2% | 3.3% |
| MN:US*    | 1.70 | 0.97 | 1.07 | 1.09 |

\*Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

***Adults Reporting Driving after having had “Perhaps Too Much to Drink” in the Past 30 Days***

|                       |                  | 1999  | 2000  | 2002 | 2004 |
|-----------------------|------------------|-------|-------|------|------|
| <b>Gender</b>         | Male             | 11.9% | 7.8%  | 7.4% | 4.9% |
|                       | Female           | 3.6%  | 4.5%  | 1.3% | 2.5% |
| <b>Age</b>            | Ages 18 thru 20  | 11.4% | 18.5% | 7.9% | 8.3% |
|                       | Ages 21 thru 29  | 12.9% | 7.4%  | 5.1% | 5.1% |
|                       | Ages 30 thru 34  | 10.1% | 7.7%  | 4.7% | 4.0% |
|                       | Ages 35 thru 54  | 6.3%  | 6.6%  | 5.3% | 4.6% |
|                       | Ages 55 thru 64  | 7.9%  | 2.6%  | 3.4% | 1.6% |
|                       | Ages 65 and over | 3.7%  | 0.7%  | 0.4% | 1.0% |
| <b>Race/Ethnicity</b> | White            | 7.7%  | 6.2%  | 4.6% | 7.6% |
|                       | Black            | N/A   | N/A   | N/A  | N/A  |
|                       | Hispanic         | N/A   | N/A   | N/A  | N/A  |
|                       | Other            | N/A   | N/A   | N/A  | N/A  |

N/A = Not available if the unweighted sample size for the denominator was < 50

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Alcohol

**Data Source:** Minnesota Student Survey

***Students\* Reporting Driving a Motor Vehicle One More or More after using Alcohol or Drugs, within the Past 12 Months***

| Minnesota                  | 2001   | 2004   | 2007  | 2010  |
|----------------------------|--------|--------|-------|-------|
| Number driving impaired    | 12,611 | 11,761 | 9,348 | 6,949 |
| Percent of all respondents | 18%    | 17%    | 13%   | 10%   |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Impaired Driving in the Past 12 months by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 4,072 | 13% |
|                       | Female                             | 2,877 | 8%  |
| <b>Grade</b>          | 9th                                | 1,377 | 4%  |
|                       | 12th                               | 5,612 | 19% |
| <b>Race/Ethnicity</b> | White                              | 5,673 | 11% |
|                       | African-American, African or Black | 217   | 8%  |
|                       | American Indian                    | 98    | 14% |
|                       | Asian American/Pacific Islander    | 167   | 5%  |
|                       | Hispanic/Latino                    | 215   | 9%  |
| <b>Region</b>         | Metro                              | 3,331 | 9%  |
|                       | Non-metro                          | 3,618 | 12% |

***Minnesota Students Reporting Impaired Driving in the Past 12 Months by Gender and Grade, 2010***

|              |      | Male  |     | Female |     |
|--------------|------|-------|-----|--------|-----|
|              |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9th  | 808   | 5%  | 529    | 3%  |
|              | 12th | 3,264 | 23% | 2,348  | 15% |

***Minnesota Students Reporting Impaired Driving in the Past 12 Months by Grade and Race/Ethnicity, 2010***

| Race/Ethnicity                     | 9th grade |    | 12th grade |     |
|------------------------------------|-----------|----|------------|-----|
|                                    | N (#)     | %  | N (#)      | %   |
| White                              | 865       | 3% | 4,808      | 20% |
| African-American, African or Black | 80        | 5% | 137        | 12% |
| American Indian                    | 42        | 9% | 56         | 23% |
| Asian American/Pacific Islander    | 52        | 2% | 115        | 8%  |
| Hispanic/Latino                    | 85        | 4% | 130        | 16% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

***Race-Specific Data on Impaired Driving in the Past 12 Months***

| <b>White Students Reporting Impaired Driving by Gender and Grade, 2010</b>                              |      |             |     |               |     |
|---|------|-------------|-----|---------------|-----|
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 808         | 5%  | 529           | 3%  |
|   | 12th | 3,264       | 23% | 2,348         | 15% |
| <b>African-American, African or Black Students Reporting Impaired Driving by Gender and Grade, 2010</b> |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 65          | 8%  | 15            | 2%  |
|   | 12th | 101         | 17% | 36            | 6%  |
| <b>American Indian Students Reporting Impaired Driving by Gender and Grade, 2010</b>                    |      |             |     |               |     |
| <b>Female</b>   |      | <b>Male</b> |     |               |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 24          | 9%  | 18            | 9%  |
|   | 12th | 32          | 24% | 24            | 21% |
| <b>Asian American/Pacific Islander Students Reporting Impaired Driving by Gender and Grade, 2010</b>    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 30          | 3%  | 22            | 2%  |
|   | 12th | 73          | 10% | 42            | 6%  |
| <b>Hispanic/Latino Students Reporting Impaired Driving by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9th  | 55          | 7%  | 30            | 4%  |
|   | 12th | 84          | 21% | 46            | 11% |

***Minnesota Students Reporting Impaired Driving in the Past 12 Months by Region and Race/Ethnicity, 2010***

|                                    |  | <b>Metro</b> |     | <b>Non-Metro</b> |     |
|------------------------------------|--|--------------|-----|------------------|-----|
| <b>Race/Ethnicity</b>              |  | N (#)        | %   | N (#)            | %   |
| White                              |  | 2,552        | 10% | 3,121            | 12% |
| African-American, African or Black |  | 168          | 7%  | 49               | 11% |
| American Indian                    |  | 32           | 14% | 66               | 14% |
| Asian American/Pacific Islander    |  | 125          | 4%  | 42               | 8%  |
| Hispanic/Latino                    |  | 125          | 9%  | 90               | 10% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Alcohol

**Data Source:** Minnesota Student Survey

***Students\* Reporting Riding with Friends after they have been Using Alcohol or Drugs, within the Past 12 Months***

| Minnesota                  | 2001   | 2004   | 2007   | 2010   |
|----------------------------|--------|--------|--------|--------|
| Number riding with friends | 26,388 | 25,526 | 22,370 | 23,815 |
| Percent of all respondents | 32%    | 30%    | 26%    | 27%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Riding with Impaired Friends in the Past 12 Months by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 11,753 | 28% |
|                       | Female                             | 12,062 | 27% |
| <b>Grade</b>          | 9th                                | 7,354  | 17% |
|                       | 12th                               | 11,428 | 33% |
| <b>Race/Ethnicity</b> | White                              | 18,690 | 27% |
|                       | African-American, African or Black | 1,325  | 27% |
|                       | American Indian                    | 1,263  | 37% |
|                       | Asian American/Pacific Islander    | 1,160  | 24% |
|                       | Hispanic/Latino                    | 1,377  | 34% |
| <b>Region</b>         | Metro                              | 9,768  | 23% |
|                       | Non-Metro                          | 9,014  | 25% |

***Minnesota Students Reporting Riding with Impaired Friends in the Past 12 Months by Gender and Grade, 2010***

|              |      | Male  |     | Female |     |
|--------------|------|-------|-----|--------|-----|
|              |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9th  | 3,501 | 16% | 3,853  | 17% |
|              | 12th | 6,297 | 37% | 5,131  | 29% |

***Minnesota Students Reporting Riding with Impaired Friends in the Past 12 Months by Grade and Race/Ethnicity, 2010***

| Race/Ethnicity                     | 9th grade |     | 12th grade |     |
|------------------------------------|-----------|-----|------------|-----|
|                                    | N (#)     | %   | N (#)      | %   |
| White                              | 4,790     | 15% | 9,064      | 33% |
| African-American, African or Black | 403       | 19% | 441        | 29% |
| American Indian                    | 192       | 33% | 142        | 47% |
| Asian American/Pacific Islander    | 382       | 16% | 508        | 29% |
| Hispanic/Latino                    | 509       | 26% | 387        | 37% |

**Race-Specific Data on Riding with Impaired Friends in the Past 12 Months**

| <b>White Students Reporting Riding with Impaired Friends in the Past 12 months, by Gender and Grade, 2010</b>                              |      |             |     |               |     |
|--|------|-------------|-----|---------------|-----|
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 9th  | 2,191       | 14% | 2,599         | 15% |
|  | 12th | 4,982       | 37% | 4,082         | 29% |
| <b>African-American, African or Black Students Reporting Riding with Impaired Friends in the Past 12 Months, by Gender and Grade, 2010</b> |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 9th  | 247         | 21% | 156           | 15% |
|  | 12th | 262         | 35% | 179           | 23% |
| <b>American Indian Students Reporting Riding with Impaired Friends in the Past 12 Months, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 9th  | 109         | 33% | 83            | 32% |
|  | 12th | 77          | 47% | 65            | 47% |
| <b>Asian American/Pacific Islander Students Reporting Riding with Impaired Friends in the Past 12 Months, by Gender and Grade, 2010</b>    |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 9th  | 192         | 17% | 190           | 15% |
|  | 12th | 286         | 33% | 222           | 24% |
| <b>Hispanic/Latino Students Reporting Riding with Impaired Friends in the Past 12 Months, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 9th  | 261         | 26% | 248           | 27% |
|  | 12th | 213         | 42% | 174           | 32% |

**Minnesota Students Reporting Riding with Impaired Friends in the Past 12 Months by Region and Race/Ethnicity, 2010**

|                                    | <b>Metro</b> |     | <b>Non-Metro</b> |     |
|------------------------------------|--------------|-----|------------------|-----|
| <b>Race/Ethnicity</b>              | N (#)        | %   | N (#)            | %   |
| White                              | 6,513        | 22% | 7,341            | 24% |
| African-American, African or Black | 692          | 22% | 152              | 26% |
| American Indian                    | 96           | 33% | 238              | 40% |
| Asian American/Pacific Islander    | 740          | 21% | 150              | 23% |
| Hispanic/Latino                    | 554          | 29% | 342              | 31% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

### 3. Alcohol Use in Minnesota: Consequences

#### Alcohol-Attributable Deaths

**About the Indicator:** The Centers for Disease Control and Prevention (CDC) calculates Alcohol-Related Disease Impact (ARDI) estimates of alcohol-related deaths due to alcohol consumption. To do this, ARDI either calculates or uses pre-determined estimates of Alcohol-Attributable Fractions (AAFs)— the proportion of deaths from various causes that are due to alcohol. These AAFs are then multiplied by the number of deaths caused by a specific condition (e.g., liver cancer) to obtain the number of alcohol-attributable deaths.

**Data Source(s):** Alcohol-Related Disease Impact (ARDI)

#### Section Summary:

- Alcohol-attributable deaths among males are more than double that of females in both Minnesota and the US.
- A majority of alcohol-related deaths are from acute causes, particularly motor vehicle traffic crashes, fall injuries and suicides.

**Substance:** Alcohol

**Data Source:** Alcohol-Attributable Disease Impact (ARDI)

***Alcohol Attributable Deaths, Average for 2001-2005: Medium & High Average Daily Alcohol Consumption, All Ages***

|   | Minnesota  |            |              | United States |               |               |
|---|------------|------------|--------------|---------------|---------------|---------------|
|   | Male       | Female     | Total        | Male          | Female        | Total         |
| <b>Total for All Causes</b>                   | <b>799</b> | <b>354</b> | <b>1,152</b> | <b>57,429</b> | <b>22,217</b> | <b>79,646</b> |
| <b>Chronic Causes</b>                         |            |            |              |               |               |               |
| Acute pancreatitis                            | 5          | 4          | 9            | 366           | 329           | 695           |
| Alcohol abuse                                 | 23         | 10         | 33           | 1,868         | 514           | 2,382         |
| Alcohol cardiomyopathy                        | 3          | 0          | 3            | 389           | 59            | 448           |
| Alcohol dependence syndrome                   | 70         | 16         | 86           | 3,037         | 820           | 3,857         |
| Alcohol polyneuropathy                        | 0          | 0          | 0            | 1             | 0             | 1             |
| Alcohol-induced chronic pancreatitis          | 3          | 1          | 4            | 248           | 63            | 311           |
| Alcoholic gastritis                           | 0          | 0          | 0            | 17            | 4             | 21            |
| Alcoholic liver disease                       | 119        | 48         | 167          | 8,938         | 3,281         | 12,219        |
| Alcoholic psychosis                           | 12         | 4          | 16           | 568           | 183           | 751           |
| Breast cancer (females only)                  | 0          | 6          | 6            | 0             | 355           | 355           |
| Cholelithiases                                | 0          | 0          | 0            | 0             | 0             | 0             |
| Chronic hepatitis                             | 0          | <1         | <1           | 2             | 2             | 4             |
| Chronic pancreatitis                          | 0          | 1          | 1            | 118           | 112           | 229           |
| Degeneration of nervous system due to alcohol | 0          | 0          | 0            | 77            | 14            | 91            |
| Epilepsy                                      | 1          | 1          | 2            | 102           | 88            | 191           |
| Esophageal cancer                             | 7          | 1          | 8            | 426           | 52            | 478           |
| Esophageal varices                            | <1         | 0          | <1           | 53            | 20            | 74            |
| Gastroesophageal hemorrhage                   | 0          | 0          | 0            | 16            | 13            | 29            |
| Hypertension                                  | 8          | 9          | 17           | 753           | 610           | 1,363         |
| Ischemic heart disease                        | 7          | 3          | 10           | 609           | 277           | 8862          |
| Laryngeal cancer                              | 2          | <1         | 3            | 207           | 30            | 237           |
| Liver cancer                                  | 8          | 3          | 11           | 598           | 187           | 786           |
| Liver cirrhosis unspecified                   | 41         | 36         | 76           | 4,134         | 2,921         | 7,055         |
| Low birth weight prematurity IUGR death       | 1          | 1          | 1            | 108           | 52            | 160           |
| Oropharyngeal cancer                          | 4          | 1          | 5            | 320           | 56            | 376           |
| Portal hypertension                           | 0          | 0          | 0            | 26            | 14            | 40            |
| Prostate cancer (males only)                  | 5          | 0          | 5            | 232           | 0             | 232           |
| Psoriasis                                     | 0          | 0          | 0            | <1            | <1            | <1            |
| Stroke hemorrhagic                            | 24         | 5          | 30           | 1,472         | 303           | 1,775         |
| Stroke ischemic                               | 11         | 4          | 15           | 495           | 181           | 676           |
| Supraventricular cardiac dysrhythmia          | 2          | 3          | 5            | 85            | 102           | 187           |
| <b>Subtotal</b>                               | <b>356</b> | <b>156</b> | <b>512</b>   | <b>25,269</b> | <b>10,646</b> | <b>35,915</b> |

| Acute Causes                       |            |            |            |               |               |               |
|------------------------------------|------------|------------|------------|---------------|---------------|---------------|
| Air-space transport                | 2          | <1         | 3          | 104           | 21            | 125           |
| Alcohol poisoning                  | 5          | 0          | 5          | 292           | 78            | 370           |
| Aspiration                         | 1          | 1          | 2          | 109           | 95            | 204           |
| Child maltreatment                 | 1          | 1          | 2          | 96            | 72            | 168           |
| Drowning                           | 11         | 1          | 12         | 716           | 152           | 868           |
| Fall injuries                      | 77         | 93         | 170        | 2,888         | 2,644         | 5,532         |
| Fire injuries                      | 8          | 6          | 14         | 692           | 466           | 1,158         |
| Firearm injuries                   | <1         | 0          | <1         | 108           | 15            | 123           |
| Homicide                           | 41         | 14         | 55         | 6,174         | 1,613         | 7,787         |
| Hypothermia                        | 4          | 3          | 7          | 182           | 87            | 269           |
| Motor-vehicle non-traffic crashes  | 5          | <1         | 6          | 147           | 36            | 183           |
| Motor-vehicle traffic crashes      | 151        | 44         | 195        | 10,802        | 3,016         | 13,819        |
| Occupational and machine injuries  | 2          | 0          | 2          | 130           | 7             | 138           |
| Other road vehicle crashes         | 2          | <1         | 3          | 165           | 45            | 210           |
| Poisoning (not alcohol)            | 35         | 13         | 48         | 3,669         | 1,747         | 5,416         |
| Suicide                            | 94         | 21         | 115        | 5,778         | 1,457         | 7,235         |
| Suicide by and exposure to alcohol | 0          | 0          | 0          | 22            | 9             | 31            |
| Water transport                    | 2          | 0          | 2          | 87            | 11            | 98            |
| <b>Subtotal</b>                    | <b>442</b> | <b>198</b> | <b>640</b> | <b>32,159</b> | <b>11,572</b> | <b>43,731</b> |

Note: Alcohol-Related Disease Impact (ARDI) software generates estimates of alcohol-related deaths and Years of Potential Life Lost (YPLL) due to alcohol consumption. To do this, ARDI either calculates or uses pre-determined estimates of Alcohol-Attributable Fractions (AAFs)—that is, the proportion of deaths from various causes that are due to alcohol. These AAFs are then multiplied by the number of deaths caused by a specific condition (e.g., liver cancer) to obtain the number of alcohol-attributable deaths.

Numbers may not sum exactly to totals due to rounding. ARDI assigns a value of <1 when there was exactly one death from a condition that is not 100% alcohol-attributable (i.e., a condition with an AAF <1).

### ***Years of Potential Life Lost, Average for 2001-2005: Medium & High Average Daily Alcohol Consumption, All Ages***

|               | Male      | Female  | Total     |
|---------------|-----------|---------|-----------|
| Minnesota     | 22,433    | 8,496   | 30,929    |
| United States | 1,729,877 | 627,667 | 2,357,544 |

Note: Total for all causes. Data on life expectancy are obtained from the National Vital Statistics System managed by the National Center for Health Statistics (<http://www.cdc.gov/nchs>). Life expectancy data were also stratified by age and gender using standard 5-year age groupings. These life expectancy data were, in turn, used to estimate the YPLL for alcohol-attributable deaths.

Since YPLL is based on the age at death, the YPLL for a particular alcohol-related condition is directly related to the age distribution of the persons who typically die of that condition. As a result, YPLL generally tends to be higher for conditions that disproportionately affect youth and young adults (e.g., motor-vehicle traffic deaths) and lower for conditions that primarily affect older adults (e.g., ischemic heart disease).

## Deaths from Suicide

**About the Indicator:** Suicide is closely associated with alcohol and drug abuse. The International Classification of Diseases (ICD-10) measures all suicides, many of which are attributable to substance abuse.

The Centers for Disease Control and Prevention (CDC) provides a measure of Alcohol-Attributable Fractions (AAFs). AAFs are based on direct observations about the relationship between alcohol and a given health outcome. The AAF for suicide for both males and females is 23%.

In order to provide comprehensive data on suicides, both measures are presented.

**Data Source(s):** Minnesota Center for Health Statistics, Minnesota Department of Health, CDC Wonder Compressed Mortality Data, and the Alcohol-Related Disease Impact

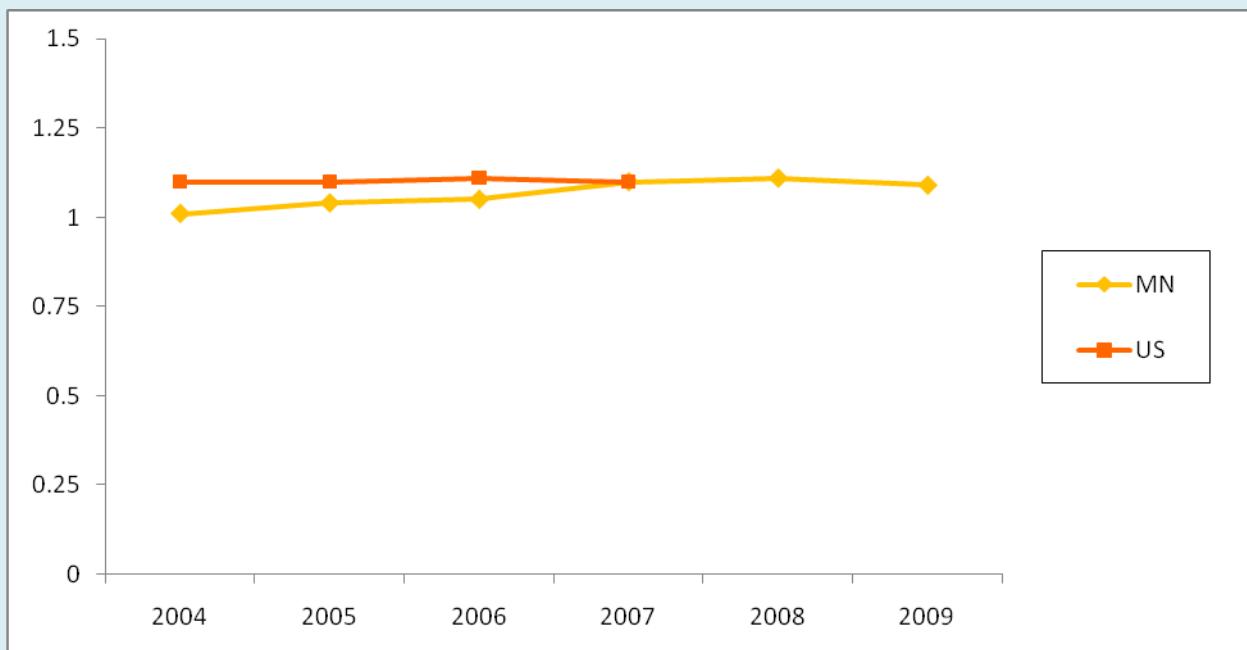
### **Section Summary:**

- Approximately one in every 10,000 Minnesotans commits suicide annually.
- Males are significantly more likely than females to commit suicide.

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health and CDC Wonder

***Deaths from Suicide per 10,000 Population***



| Minnesota                  | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
|----------------------------|--------|--------|--------|--------|------|------|
| Deaths from Suicide        | 522    | 542    | 550    | 571    | 593  | 589  |
| Rate per 10,000 population | 1.01   | 1.04   | 1.05   | 1.10   | 1.11 | 1.09 |
| United States              | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| Deaths from Suicide        | 32,439 | 32,637 | 33,300 | 34,598 | N/A  | N/A  |
| Rate per 10,000 population | 1.10   | 1.10   | 1.11   | 1.10   | N/A  | N/A  |
|                            | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| MN:US**                    | 0.92   | 0.95   | 0.95   | 1.00   | N/A  | N/A  |

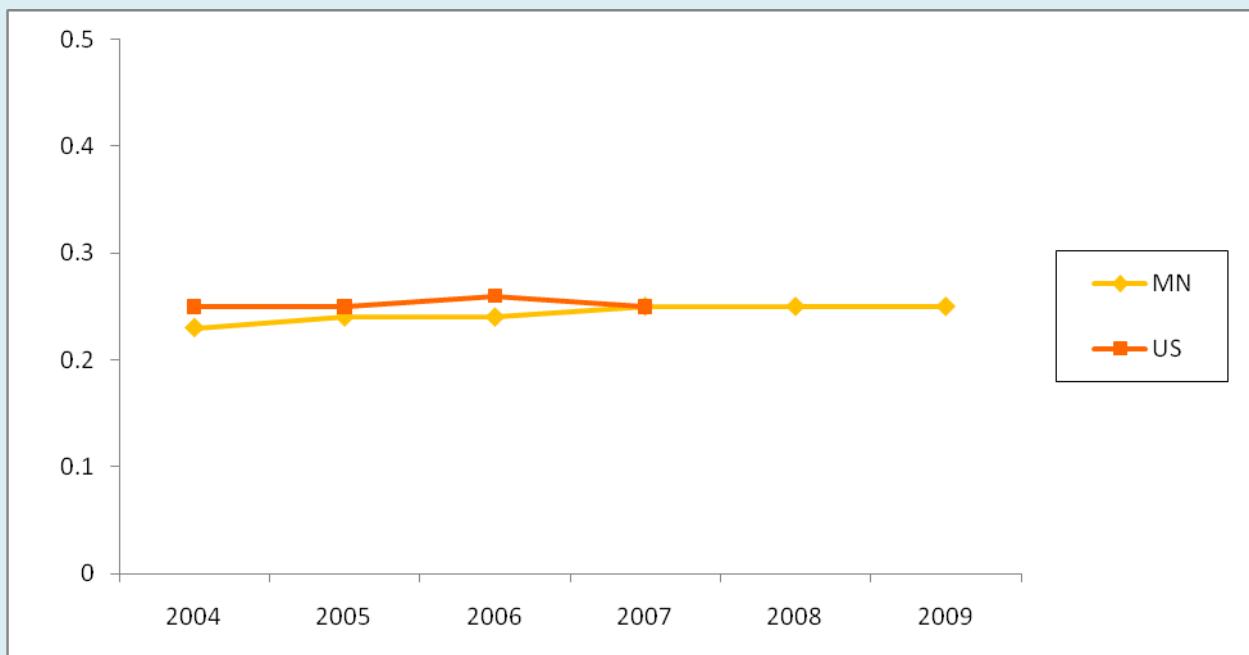
\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

N/A = Not available yet for 2008-2009

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health, CDC Wonder, and ARDI

***Deaths from Alcohol Related\* Suicide per 10,000 Population***



| Minnesota                    | 2004  | 2005  | 2006  | 2007  | 2008 | 2009 |
|------------------------------|-------|-------|-------|-------|------|------|
| Deaths from Alcohol-related* |       |       |       |       |      |      |
| Suicide                      | 120   | 125   | 127   | 131   | 136  | 135  |
| Rate per 10,000 population   | 0.23  | 0.24  | 0.24  | 0.25  | 0.25 | 0.25 |
| United States                | 2004  | 2005  | 2006  | 2007  | 2008 | 2009 |
| Deaths from Alcohol-related* |       |       |       |       |      |      |
| Suicide                      | 7,461 | 7,507 | 7,659 | 7,958 | N/A  | N/A  |
| Rate per 10,000 population   | 0.25  | 0.25  | 0.26  | 0.25  | N/A  | N/A  |
|                              | 2004  | 2005  | 2006  | 2007  | 2008 | 2009 |
| MN:US**                      | 0.92  | 0.96  | 0.92  | 1.00  | N/A  | N/A  |

\* = Alcohol-related suicide data are calculated using the AAF for suicide, 23%

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

N/A = Not available yet for 2008-2009

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health

***Total Minnesota Suicide Deaths by Gender, Number and Age-Adjusted Rate per 10,000 Population***

|         |        | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------|--------|------|------|------|------|------|------|
| Males   | Number | 425  | 440  | 441  | 462  | 488  | 468  |
|         | Rate   | 1.67 | 1.70 | 1.71 | 1.78 | 1.86 | 1.76 |
| Females | Number | 97   | 104  | 109  | 109  | 105  | 121  |
|         | Rate   | 0.37 | 0.40 | 0.41 | 0.41 | 0.39 | 0.45 |

***Total Minnesota Suicide Deaths by Race/Ethnicity, Number and Age-Adjusted Rate per 10,000 Population***

|                          |        | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------|--------|------|------|------|------|------|------|
| White                    | Number | 478  | 499  | 504  | 524  | 542  | 537  |
|                          | Rate   | 1.00 | 1.03 | 1.05 | 1.08 | 1.11 | 1.09 |
| African American/African | Number | 11   | 8    | 20   | 14   | 24   | 18   |
|                          | Rate   | *    | *    | *    | *    | 1.00 | *    |
| American Indian          | Number | 16   | 21   | 13   | 16   | 10   | 14   |
|                          | Rate   | *    | 2.87 | *    | *    | *    | *    |
| Asian/Pacific Islander   | Number | 11   | 13   | 10   | 10   | 10   | 7    |
|                          | Rate   | *    | *    | *    | *    | *    | *    |
| Hispanic                 | Number | 9    | 12   | 11   | 8    | 6    | 8    |
|                          | Rate   | *    | *    | *    | *    | *    | *    |

***Total Minnesota Suicide Deaths by Age Group, Number and Crude Death Rate per 10,000 Population***

|                  |        | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|------------------|--------|------|------|------|------|------|------|
| Ages 5 thru 14   | Number | 7    | 11   | 5    | 3    | 5    | 9    |
|                  | Rate   | *    | *    | *    | *    | *    | *    |
| Ages 15 thru 24  | Number | 84   | 94   | 83   | 82   | 85   | 84   |
|                  | Rate   | 1.18 | 1.11 | 1.24 | 1.11 | 1.17 | 1.13 |
| Ages 25 thru 34  | Number | 89   | 85   | 93   | 91   | 87   | 79   |
|                  | Rate   | 1.22 | 1.31 | 1.24 | 1.38 | 1.25 | 1.13 |
| Ages 35 thru 44  | Number | 120  | 97   | 115  | 116  | 121  | 96   |
|                  | Rate   | 1.48 | 1.51 | 1.24 | 1.51 | 1.68 | 1.38 |
| Ages 45 thru 54  | Number | 107  | 124  | 117  | 123  | 138  | 159  |
|                  | Rate   | 1.19 | 1.42 | 1.61 | 1.48 | 1.17 | 1.96 |
| Ages 55 thru 64  | Number | 59   | 66   | 66   | 82   | 84   | 83   |
|                  | Rate   | 1.09 | 1.21 | 1.30 | 1.23 | 1.45 | 1.38 |
| Ages 65 thru 74  | Number | 17   | 29   | 32   | 34   | 26   | 40   |
|                  | Rate   | 0.75 | *    | 0.96 | 1.03 | 0.79 | 1.16 |
| Ages 75 thru 84  | Number | 27   | 27   | 30   | 28   | 28   | 28   |
|                  | Rate   | 1.42 | 1.25 | 1.24 | 1.39 | 1.31 | 1.28 |
| Ages 85 and over | Number | 12   | 11   | 9    | 12   | 19   | 11   |
|                  | Rate   | *    | *    | *    | *    | *    | *    |

\* = Rate not calculated if number of deaths is 20 or less

## Deaths from Cirrhosis

**About the Indicator:** Cirrhosis is closely associated with alcohol abuse. The International Classification of Diseases (ICD-10) measures all cirrhoses, many of which are attributable to substance abuse.

The Centers for Disease Control and Prevention (CDC) provides a measure of Alcohol-Attributable Fractions (AAFs). AAFs are based on direct observations about the relationship between alcohol and a given health outcome. The AAF for cirrhosis for both males and females is 40%.

In order to provide comprehensive data on cirrhoses, both measures are presented.

**Data Source(s):** Minnesota Center for Health Statistics, Minnesota Department of Health, CDC Wonder Compressed Mortality Data, and the Alcohol-Related Disease Impact

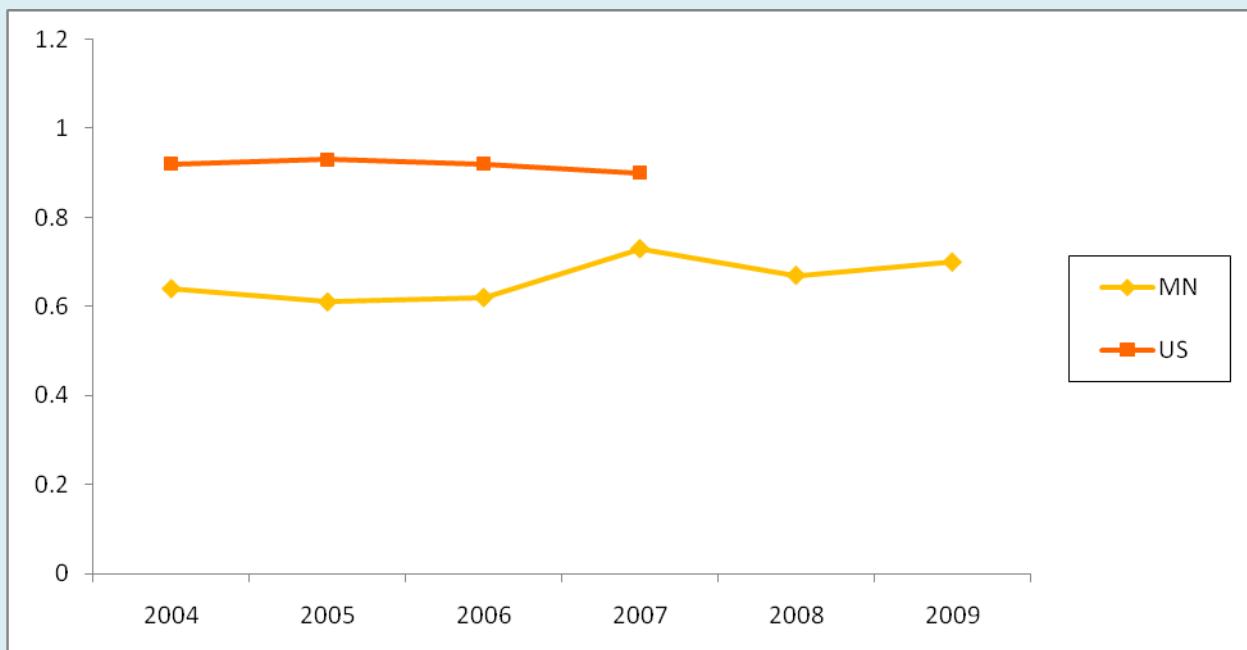
### **Section Summary:**

- Minnesota's cirrhosis death rate increased slightly from 0.67 per 10,000 population in 2008 to 0.70 per 10,000 population in 2009.
- The Minnesota rates of cirrhosis and alcohol-related cirrhosis have been consistently lower than the US rates.
- Cirrhosis deaths occur more frequently among Minnesota males than females.

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health and CDC Wonder

***Deaths from Cirrhosis per 10,000 Population***



| Minnesota                  | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
|----------------------------|--------|--------|--------|--------|------|------|
| Deaths from Cirrhosis      | 328    | 320    | 323    | 380    | 378  | 403  |
| Rate per 10,000 population | 0.64   | 0.61   | 0.62   | 0.73   | 0.67 | 0.70 |
| United States              | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| Deaths from Cirrhosis      | 27,013 | 27,530 | 27,555 | 29,068 | N/A  | N/A  |
| Rate per 10,000 population | 0.92   | 0.93   | 0.92   | 0.90   | N/A  | N/A  |
|                            | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| MN:US**                    | 0.70   | 0.66   | 0.67   | 0.81   | N/A  | N/A  |

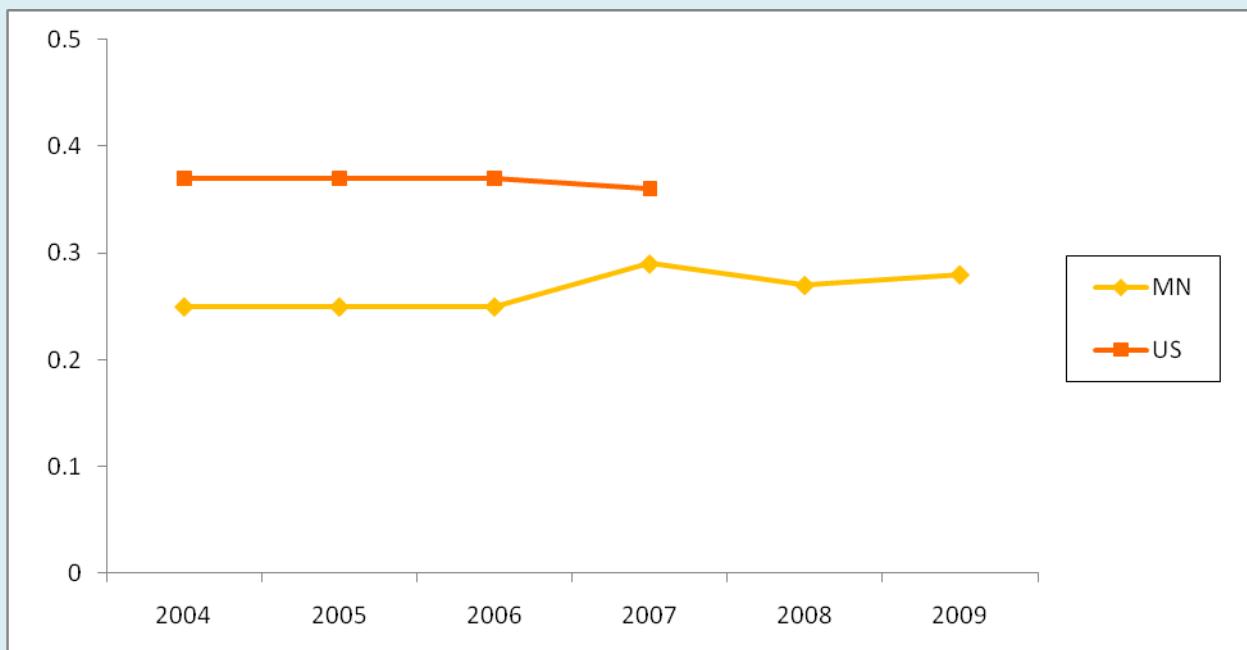
\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

N/A = Not available yet for 2008-2009

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health, CDC Wonder, and ARDI

***Deaths from Alcohol-Related\* Cirrhosis per 10,000 Population***



| Minnesota                              | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
|--|--------|--------|--------|--------|------|------|
| Deaths from alcohol-related* cirrhosis | 131    | 128    | 129    | 152    | 151  | 161  |
| Rate per 10,000 population             | 0.25   | 0.25   | 0.25   | 0.29   | 0.27 | 0.28 |
| United States                          | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| Deaths from alcohol-related* cirrhosis | 10,805 | 11,012 | 11,022 | 11,627 | N/A  | N/A  |
| Rate per 10,000 population             | 0.37   | 0.37   | 0.37   | 0.36   | N/A  | N/A  |
|  | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| MN:US**                                | 0.68   | 0.68   | 0.68   | 0.81   | N/A  | N/A  |

\*= Alcohol-related suicide data are calculated using the AAF for cirrhosis, 40%

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

N/A = Not available yet for 2008-2009

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health

***Total Minnesota Cirrhosis Deaths by Gender, Number and Age-Adjusted Rate per 10,000 Population***

|         |        | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------|--------|------|------|------|------|------|------|
| Males   | Number | 208  | 196  | 177  | 250  | 231  | 273  |
|         | Rate   | 0.92 | 0.85 | 0.78 | 0.70 | 0.86 | 0.98 |
| Females | Number | 120  | 124  | 146  | 130  | 147  | 130  |
|         | Rate   | 0.44 | 0.44 | 0.45 | 0.52 | 0.51 | 0.44 |

***Total Minnesota Cirrhosis Deaths by Race/Ethnicity, Number and Age-Adjusted Rate per 10,000 Population***

|                          |        | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------|--------|------|------|------|------|------|------|
| White                    | Number | 297  | 294  | 284  | 340  | 326  | 357  |
|                          | Rate   | 0.60 | 0.59 | 0.56 | 0.65 | 0.62 | 0.66 |
| African American/African | Number | 8    | 11   | 4    | 9    | 19   | 10   |
|                          | Rate   | *    | *    | *    | *    | *    | *    |
| American Indian          | Number | 19   | 11   | 28   | 24   | 22   | 22   |
|                          | Rate   | *    | *    | 5.26 | 5.10 | 4.30 | 3.95 |
| Asian/Pacific Islander   | Number | 4    | 4    | 3    | 5    | 1    | 5    |
|                          | Rate   | *    | *    | *    | *    | *    | *    |
| Hispanic                 | Number | 7    | 3    | 5    | 7    | 12   | 11   |
|                          | Rate   | *    | *    | *    | *    | *    | *    |

\* = Rate not calculated if number of deaths is 20 or less

***Total Minnesota Cirrhosis Deaths by Age Group, Number and Crude Death Rate per 10,000 Population***

|                  |        | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|------------------|--------|------|------|------|------|------|------|
| Ages 25 thru 34  | Number | 3    | 5    | 3    | 3    | 5    | 5    |
|                  | Rate   | *    | *    | *    | *    | *    | *    |
| Ages 35 thru 44  | Number | 39   | 33   | 34   | 45   | 34   | 30   |
|                  | Rate   | 0.49 | 0.42 | 0.45 | 0.61 | 0.47 | 0.43 |
| Ages 45 thru 54  | Number | 89   | 81   | 77   | 101  | 108  | 125  |
|                  | Rate   | 1.18 | 1.05 | 0.97 | 1.26 | 1.33 | 1.54 |
| Ages 55 thru 64  | Number | 77   | 75   | 82   | 95   | 102  | 111  |
|                  | Rate   | 1.58 | 1.47 | 1.53 | 1.70 | 1.76 | 1.84 |
| Ages 65 thru 74  | Number | 58   | 73   | 62   | 60   | 59   | 66   |
|                  | Rate   | 1.93 | 2.41 | 2.00 | 1.90 | 1.79 | 1.91 |
| Ages 75 thru 84  | Number | 49   | 39   | 49   | 52   | 54   | 50   |
|                  | Rate   | 2.26 | 1.80 | 2.27 | 2.42 | 2.53 | 2.28 |
| Ages 85 and over | Number | 12   | 13   | 15   | 22   | 15   | 16   |
|                  | Rate   | *    | *    | *    | 2.10 | *    | *    |

\* = Rate not calculated if number of deaths is 20 or less

## Fatal Alcohol-Related Motor Vehicle Crashes

**About the Indicator:** As a depressant, alcohol use interferes with coordination, judgment and reaction time and can have fatal consequences. Driving while impaired puts the driver and others at risk.

The following measures report the number of fatal alcohol related crashes and number of deaths in which at least one driver, pedestrian, or cyclist has been drinking.

**Data Source(s):** Minnesota Office of Traffic Safety and US Fatality Analysis Reporting System

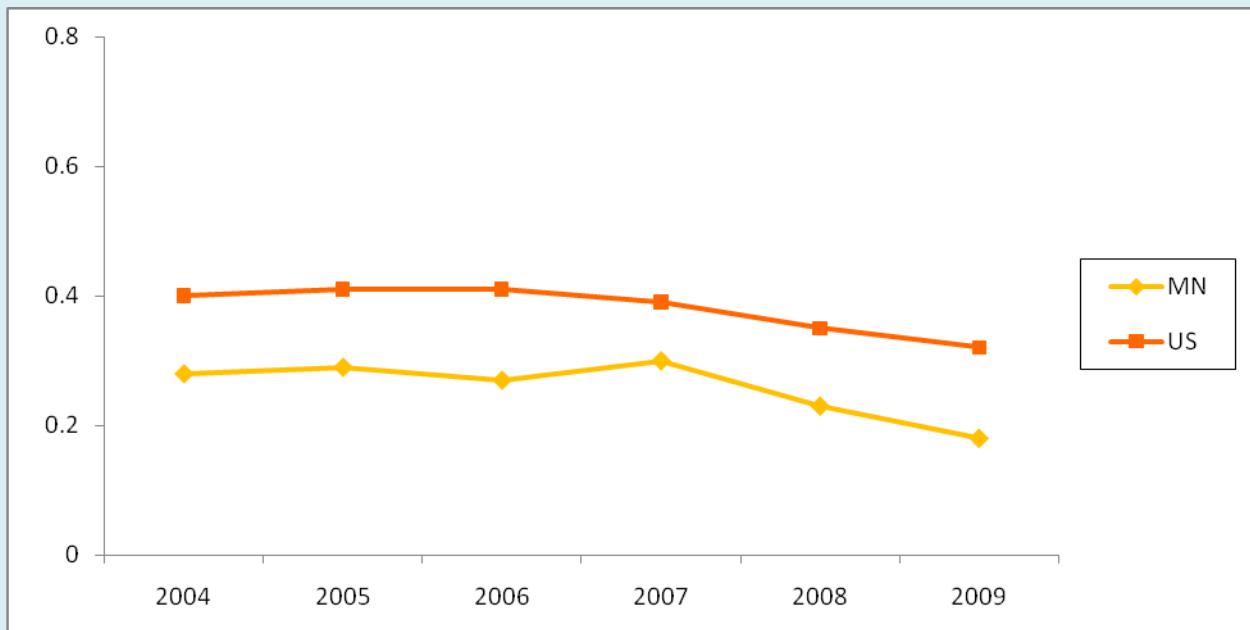
### **Section Summary:**

- Just under one-third of all fatal motor vehicle crashes in Minnesota are alcohol-related.
- Minnesota consistently had a lower rate of fatal alcohol-related traffic crashes than the US.
- In 2009, over 100 Minnesotans were killed in alcohol-related motor vehicle crashes.

**Substance:** Alcohol

**Data Source:** FARS

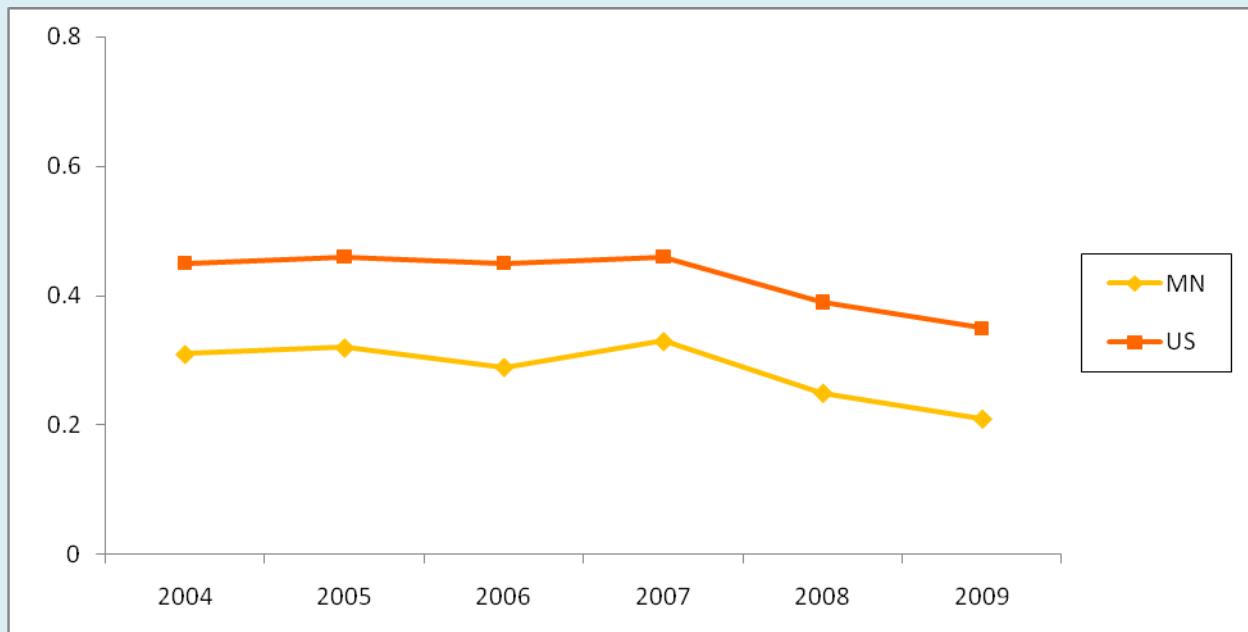
***Alcohol-Related Fatal Traffic Crashes (0.08 BAC or higher) per 10,000 Population***



| Minnesota                               | 2004   | 2005   | 2006   | 2007   | 2008   | 2009  |
|---|--------|--------|--------|--------|--------|-------|
| Number of fatal alcohol-related crashes | 143    | 149    | 139    | 153    | 122    | 95    |
| Percent of all fatal crashes in MN      | 27%    | 30%    | 30%    | 33%    | 30%    | 26%   |
| Rate per 10,000 population              | 0.28   | 0.29   | 0.27   | 0.30   | 0.23   | 0.18  |
| United States                           | 2004   | 2005   | 2006   | 2007   | 2008   | 2009  |
| Number of fatal alcohol-related crashes | 11,668 | 12,199 | 12,150 | 11,780 | 10,684 | 9,813 |
| Percent of all fatal crashes in US      | 30%    | 31%    | 31%    | 31%    | 31%    | 32%   |
| Rate per 10,000 population              | 0.40   | 0.41   | 0.41   | 0.39   | 0.35   | 0.32  |
|   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009  |
| MN:US**                                 | 0.70   | 0.71   | 0.66   | 0.77   | 0.69   | 0.56  |

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Alcohol-Related Traffic Deaths (0.08 BAC or higher) per 10,000 Population**



| Minnesota   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   |
|---|--------|--------|--------|--------|--------|--------|
| Number of persons killed in fatal alcohol-related crashes | 156    | 163    | 149    | 173    | 132    | 108    |
| Percent of persons killed in all fatal crashes in MN      | 28%    | 29%    | 30%    | 34%    | 29%    | 26%    |
| Rate per 10,000 population                                | 0.31   | 0.32   | 0.29   | 0.33   | 0.25   | 0.21   |
| United States   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   |
| Number of persons killed in fatal alcohol-related crashes | 13,099 | 13,582 | 13,491 | 13,841 | 11,711 | 10,839 |
| Percent of persons killed in all fatal crashes in US      | 31%    | 31%    | 32%    | 32%    | 31%    | 32%    |
| Rate per 10,000 population                                | 0.45   | 0.46   | 0.45   | 0.46   | 0.39   | 0.35   |
|   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   |
| MN:US**   | 0.69   | 0.69   | 0.64   | 0.73   | 0.66   | 0.58   |

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Alcohol .

**Data Source:** Minnesota Office of Traffic Safety

***Number of Minnesota Drivers Killed in Crashes, by Blood Alcohol Content and Gender***

|   |        |     | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|--------|-----|------|------|------|------|------|------|------|
| Drivers who tested 0.01 or higher (any alcohol) | Male   | 135 | 101  | 120  | 95   | 110  | 91   | 63   |      |
|   | Female | 22  | 17   | 15   | 19   | 19   | 19   | 13   |      |
| Drivers who tested over the legal limit (0.08+) | Male   | 115 | 90   | 105  | 84   | 98   | 81   | 53   |      |
|   | Female | 19  | 13   | 13   | 15   | 16   | 14   | 10   |      |

Note: The number of drivers who tested over the legal limit is a subset of the number of drivers who tested for any alcohol. In 2007, 110 total male drivers were killed in crashes involving alcohol (not 208).

***Number of Minnesotans Killed in All Crashes and in Alcohol-Related Crashes (0.01 BAC or Higher), by Age Group***

| Age Group | 2006        |                 | 2007        |                 | 2008        |                 | 2009        |                 |
|-----------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
|           | All Crashes | Alcohol-Related |
| 0-19      | 84          | 21              | 62          | 13              | 60          | 7               | 57          | 14              |
| 20-29     | 112         | 58              | 110         | 64              | 101         | 63              | 68          | 38              |
| 30-39     | 57          | 31              | 64          | 33              | 62          | 34              | 54          | 22              |
| 40-49     | 80          | 30              | 84          | 43              | 61          | 30              | 72          | 38              |
| 50-59     | 66          | 17              | 59          | 24              | 58          | 18              | 56          | 21              |
| 60+       | 95          | 9               | 131         | 13              | 113         | 11              | 114         | 8               |

***Number of Minnesotans Injured in All Crashes and in Alcohol-Related Crashes (0.01 BAC or Higher), by Age Group***

| Age Group | 2006        |                 | 2007        |                 | 2008        |                 | 2009        |                 |
|-----------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
|           | All Crashes | Alcohol-Related |
| 0-19      | 7,885       | 605             | 7,505       | 580             | 6,779       | 429             | 6,258       | 355             |
| 20-29     | 8,404       | 1,420           | 8,534       | 1,223           | 8,125       | 1,138           | 7,495       | 1,017           |
| 30-39     | 5,064       | 594             | 5,044       | 516             | 4,984       | 484             | 4,669       | 463             |
| 40-49     | 5,209       | 479             | 5,332       | 499             | 4,947       | 466             | 4,425       | 369             |
| 50-59     | 3,847       | 228             | 4,029       | 254             | 4,027       | 213             | 3,771       | 232             |
| 60+       | 3,574       | 131             | 3,861       | 122             | 4,517       | 166             | 2,474       | 76              |

Note: Includes pedestrians and bicyclists. Counts include all persons killed or injured, not just persons who had been drinking.

## Impaired Driving Violations

**About the Indicator:** As a depressant, alcohol use interferes with coordination, judgment and reaction time and can have fatal consequences. Driving with a blood alcohol concentration (BAC) of 0.08% or higher (0.04% or higher for drivers operating a commercial vehicle) is a violation of Minnesota Statute 169.A. DWIs, also called DUIs, are entered directly on driver license records maintained by the Minnesota Department of Public Safety. DWIs are also reported to the federal Department of Justice by the Minnesota Bureau of Criminal Apprehension as part of its Uniform Crime Reports (UCR).

In 2009, the Minnesota Department of Public Safety, Office of Traffic Safety reported 32,756 DWIs. According to Uniform Crime Reports, there were 26,240 arrests. The discrepancy is due to different reporting procedures for the two systems. The higher number is more accurate, as it is taken from driver license records. UCR counts are low as not all law enforcement agencies report all their DWI arrests to the Bureau of Criminal Apprehension, and because the counts includes only arrests where the most serious offense was the DWI offense. All states make comparable UCR reports to the US Department of Justice. Thus, the UCR DWI counts are included here for the sake of comparing Minnesota statistics to those of the US.

**Data Source(s):** The following statistics on gender and specific age groups of those arrested for DWI are from the Office of Traffic Safety of the Minnesota Department of Public Safety, and are derived from entries on Minnesota driver license records. The statistics on the total number of DWI arrests, the rate per 1,000 population, juvenile versus adult, race and ethnicity, are from the Bureau of Criminal Apprehension's Uniform Crime Reports (UCR).

### Section Summary:

- DUI arrests are more prevalent among males compared to females, and are most prevalent among individuals age 20-24 compared to other age groups.
- While Minnesota's DUI arrest rate decreased from 2006 to 2009, it was still considerably higher than the national average.

**Substance:** Alcohol

**Data Source:** MN Office of Traffic Safety

***Minnesota Arrests for DUI, by Gender and Age: Violator Data***

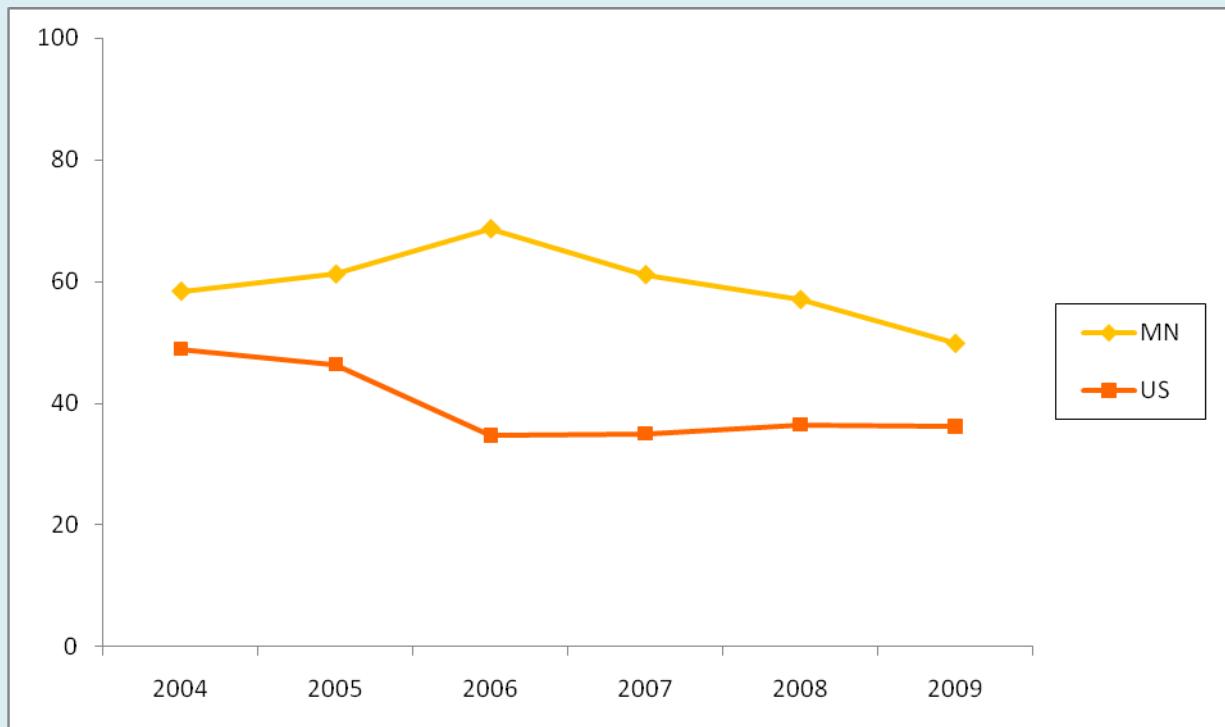
|               |        | 2006   |      | 2007   |      | 2008   |      | 2009   |      |
|---------------|--------|--------|------|--------|------|--------|------|--------|------|
|               |        | N (#)  | %    |
| <b>Gender</b> | Male   | 28,665 | 68.6 | 26,365 | 68.2 | 24,142 | 67.6 | 22,078 | 67.4 |
|               | Female | 9,293  | 22.2 | 8,809  | 22.8 | 8,444  | 23.6 | 7,906  | 24.1 |
| <b>Age</b>    | 0-14   | 6      | 0.0  | 4      | 0.0  | 6      | 0.0  | 6      | 0.0  |
|               | 15-19  | 2,681  | 6.4  | 2,238  | 5.8  | 1,899  | 5.3  | 1,603  | 4.9  |
|               | 20-24  | 11,021 | 26.3 | 9,856  | 25.5 | 8,609  | 24.1 | 7,570  | 23.1 |
|               | 25-29  | 8,043  | 19.2 | 7,398  | 19.1 | 6,868  | 19.2 | 6,394  | 19.5 |
|               | 30-34  | 4,749  | 11.0 | 4,473  | 11.6 | 4,502  | 12.6 | 4,097  | 12.5 |
|               | 35-39  | 4,134  | 9.9  | 3,948  | 10.2 | 3,579  | 10.0 | 3,386  | 10.3 |
|               | 40-44  | 4,011  | 9.6  | 3,624  | 9.4  | 3,278  | 9.2  | 2,937  | 9.0  |
|               | 45-49  | 3,342  | 8.0  | 3,171  | 8.2  | 2,994  | 8.4  | 2,873  | 8.8  |
|               | 50-54  | 1,985  | 4.7  | 1,911  | 4.9  | 1,937  | 5.4  | 1,893  | 5.8  |
|               | 55-59  | 1,030  | 2.5  | 1,100  | 2.8  | 1,114  | 3.1  | 1,055  | 3.2  |
|               | 60-64  | 447    | 1.1  | 491    | 1.3  | 554    | 1.6  | 541    | 1.7  |
|               | 65-69  | 225    | 0.5  | 262    | 0.7  | 229    | 0.6  | 225    | 0.7  |
|               | 70-74  | 107    | 0.3  | 93     | 0.2  | 101    | 0.3  | 119    | 0.4  |
|               | 75+    | 61     | 0.1  | 65     | 0.2  | 66     | 0.0  | 56     | 0.2  |

Note: In this table, for example, 69.7% for males in 2005 indicates that 69.7% of all DUI arrests were of males. It does not mean that 69.7% of all males were arrested for DUI. Percentages do not total to 100%--if a person arrested for impaired driving does not have a Minnesota driver's license, then a record is created, but the new record does *not* show the person's gender.

**Substance:** Alcohol

**Data Source:** UCR

***Arrests for DUI per 10,000 Population***



| Minnesota*                 | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| DUI arrests                | 29,663    | 31,268    | 35,349    | 31,735    | 29,832    | 26,240    |
| Rate per 10,000 population | 58.4      | 61.2      | 68.7      | 61.1      | 57.0      | 49.8      |
| United States              | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
| DUI arrests                | 1,433,382 | 1,371,919 | 1,038,633 | 1,055,981 | 1,110,083 | 1,112,384 |
| Rate per 10,000 population | 48.9      | 46.4      | 34.8      | 35.0      | 36.5      | 36.2      |
|                            | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
| MN:US**                    | 1.19      | 1.32      | 1.97      | 1.75      | 1.56      | 1.38      |

\* St. Paul Police Department does not submit Part II arrest data to the BCA. Includes only arrests where the most serious offense was the Driving Under the Influence offense

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Minnesota Arrests for DUI by Age, Race and Ethnicity\***

|                  |                         | 2006   |      | 2007   |      | 2008   |      | 2009   |      |
|------------------|-------------------------|--------|------|--------|------|--------|------|--------|------|
|                  |                         | N (#)  | %    |
| <b>Age</b>       | <i>Juvenile</i>         | 834    | 2.4  | 666    | 2.1  | 536    | 1.8  | 399    | 1.89 |
|                  | <i>Adult</i>            | 34,515 | 97.6 | 31,793 | 97.9 | 29,686 | 98.2 | 26,758 | 98.5 |
|                  |                         |        |      |        |      |        |      |        |      |
| <b>Race</b>      | <i>White</i>            | 31,976 | 90.5 | 29,181 | 89.9 | 27,073 | 89.6 | 24,050 | 88.6 |
|                  | <i>African American</i> | 1,997  | 5.6  | 1,940  | 6.0  | 1,868  | 6.2  | 1,842  | 6.7  |
|                  | <i>Indian/ Alaskan</i>  | 769    | 2.2  | 692    | 2.1  | 606    | 2.0  | 559    | 2.1  |
|                  | <i>Asian</i>            | 607    | 1.7  | 646    | 2.0  | 675    | 2.2  | 706    | 2.6  |
|                  |                         |        |      |        |      |        |      |        |      |
| <b>Ethnicity</b> | <i>Hispanic</i>         | 2,165  | 6.9  | 2,352  | 6.7  | 2,216  | 6.8  | 1,776  | 6.6  |
|                  | <i>Non-Hispanic</i>     | 29,103 | 93.1 | 32,997 | 93.3 | 30,243 | 93.2 | 28,175 | 93.5 |

\* Persons of Hispanic ethnicity can be of any race. St. Paul Police Department does not submit Part II arrest data to the BCA. Includes only arrests where the most serious offense was the Driving Under the Influence offense. Juveniles are defined as persons aged 17 and under; adults are defined as persons aged 18 and older.

Note: In this table, for example, 1.9% for juveniles in 2009 indicates that 1.9% of all DUI arrests were of juveniles. It does not mean that 1.9% of all juveniles were arrested for DUI.

## Alcohol-Related Boating Citations

**About the Indicator:** In Minnesota, the Department of Natural Resources conservation officers and county sheriffs are charged with enforcing boating laws and regulations. Operating a motorboat while under the influence of alcohol, a controlled substance or other illegal chemical is unlawful. As on the roadways, on-water enforcement officers may administer sobriety and/or chemical tests to determine the influence of alcohol on the operator. The alcohol concentration for impaired operation is now 0.08.

These data are from all reporting agencies combined.

**Data Source(s):** Minnesota Department of Natural Resources, Boat & Water Safety Section (obtained by request)

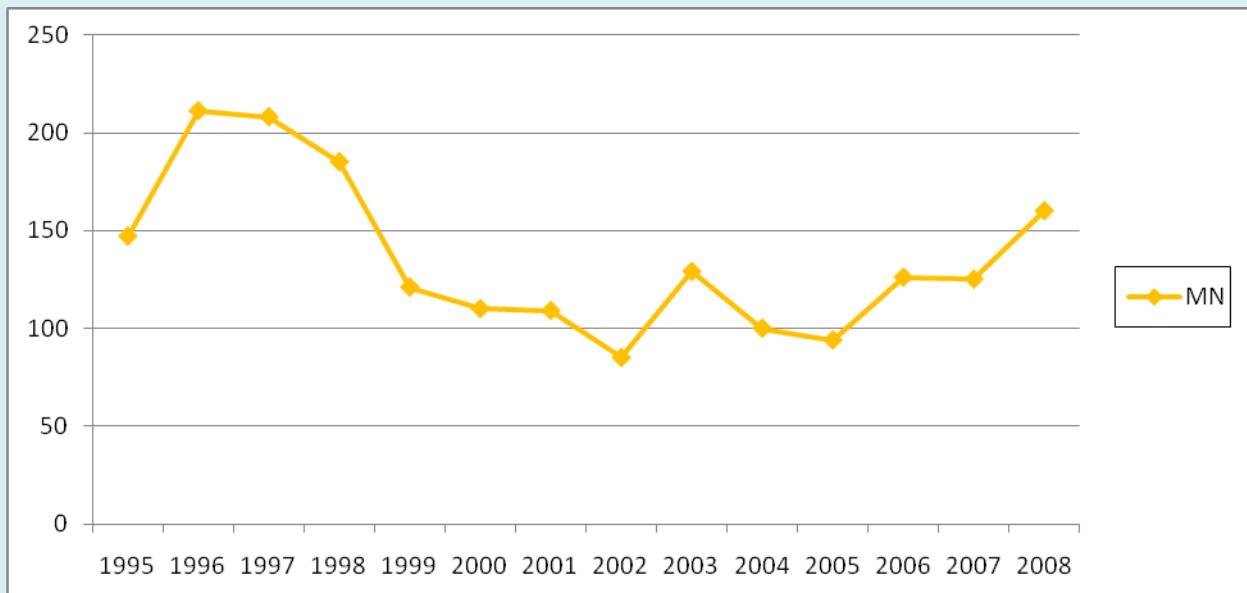
### **Section Summary:**

- Over the five year period from 2004 to 2008, the number of alcohol-related boating citations averaged 121 per year in Minnesota.

**Substance:** Alcohol

**Data Source:** Boat & Water Safety Section, DNR

***Number of Minnesota Alcohol-Related Boating Citations***



| Year | Number of Citations | Year | Number of Citations |
|------|---------------------|------|---------------------|
| 1995 | 147                 | 2002 | 85                  |
| 1996 | 211                 | 2003 | 129                 |
| 1997 | 208                 | 2004 | 100                 |
| 1998 | 185                 | 2005 | 94                  |
| 1999 | 121                 | 2006 | 126                 |
| 2000 | 110                 | 2007 | 125                 |
| 2001 | 109                 | 2008 | 160                 |

## Liquor Law Arrests

**About the Indicator:** With the exception of drunkenness and driving under the influence, all state or local liquor law violations are placed in this class. Liquor laws include manufacturing, selling, transporting and furnishing as in maintaining unlawful drinking places. Bootlegging, operating a still, furnishing liquor to a minor and the using of a vehicle for illegal transportation of liquor are also included.

**Data Source(s):** Uniform Crime Reports (UCR)

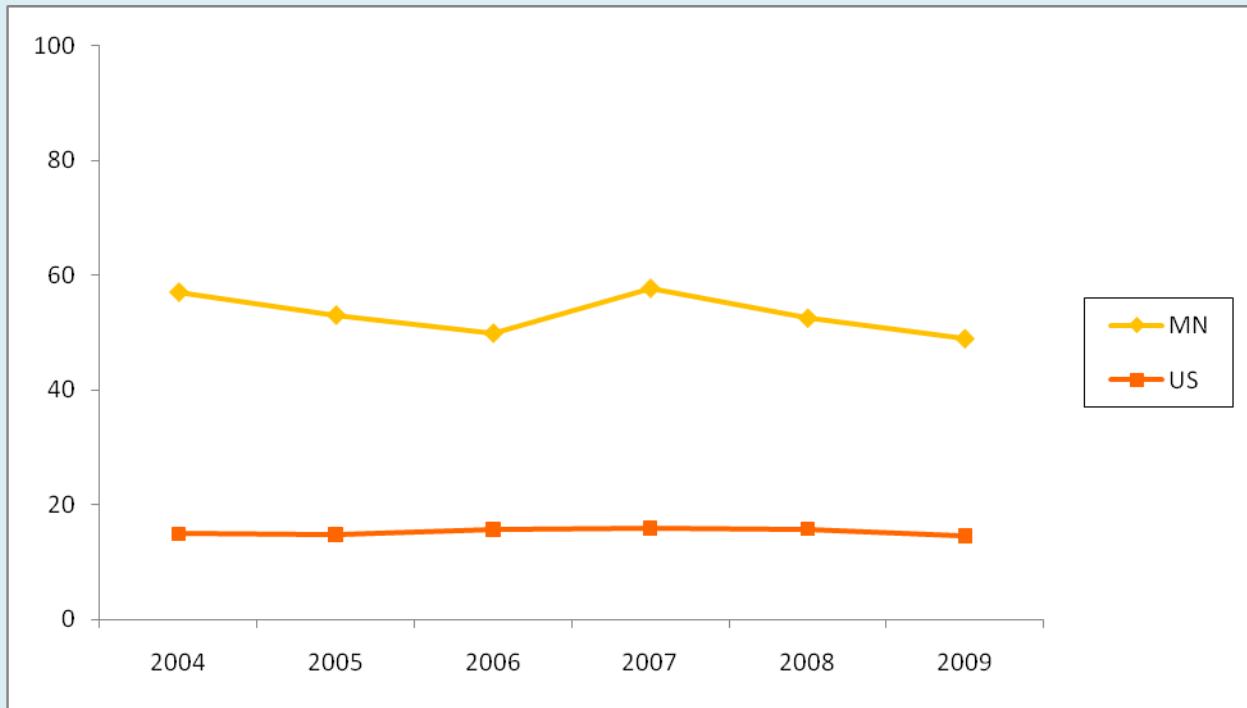
### Section Summary:

- Minnesota's liquor law arrest rate has been consistently higher than the U.S. average.
- The percent of liquor law arrestees in Minnesota who are juveniles has gradually declined, from 27% in 2005 to under 22% in 2009.

**Substance:** Alcohol

**Data Source:** UCR

*Arrests for Liquor Law Crimes per 10,000 Population*



| Minnesota*                 | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
|----------------------------|---------|---------|---------|---------|---------|---------|
| Liquor law arrests         | 28,951  | 27,086  | 25,700  | 29,932  | 27,458  | 25,784  |
| Rate per 10,000 population | 57.0    | 53.0    | 49.9    | 57.7    | 52.5    | 49.0    |
| United States              | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
| Liquor law arrests         | 437,764 | 437,923 | 469,186 | 478,671 | 478,800 | 447,496 |
| Rate per 10,000 population | 14.9    | 14.8    | 15.7    | 15.9    | 15.7    | 14.6    |
|                            | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
| MN:US**                    | 3.82    | 3.58    | 3.18    | 3.63    | 3.34    | 3.36    |

\* St. Paul Police Department does not submit Part II arrest data to the BCA. Includes only arrests where the most serious offense was the liquor law offense

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Arrests for Liquor Law Crimes in Minnesota by Gender, Age, and Race/Ethnicity**

|                  |                         | 2006   |      | 2007   |      | 2008   |      | 2009   |      |
|------------------|-------------------------|--------|------|--------|------|--------|------|--------|------|
|                  |                         | N (#)  | %    |
| <b>Age</b>       | <i>Juvenile</i>         | 8,030  | 26.7 | 7,299  | 24.1 | 6,473  | 23.1 | 5,745  | 21.6 |
|                  | <i>Adult</i>            | 22,056 | 73.3 | 23,009 | 75.9 | 21,542 | 76.9 | 26,506 | 78.3 |
|                  |                         |        |      |        |      |        |      |        |      |
| <b>Race</b>      | <i>White</i>            | 26,192 | 87.1 | 26,020 | 85.9 | 23,768 | 84.8 | 21,875 | 82.5 |
|                  | <i>African American</i> | 2,107  | 7.0  | 2,421  | 8.0  | 2,592  | 9.3  | 1,552  | 10.7 |
|                  | <i>Indian/ Alaskan</i>  | 1,376  | 4.6  | 1,407  | 4.6  | 1,205  | 4.3  | 1,307  | 5.9  |
|                  | <i>Asian</i>            | 411    | 1.4  | 460    | 1.5  | 450    | 1.6  | 477    | 1.8  |
|                  |                         |        |      |        |      |        |      |        |      |
| <b>Ethnicity</b> | <i>Hispanic</i>         | 1,096  | 3.6  | 1,134  | 3.7  | 1,181  | 4.2  | 1,187  | 4.5  |
|                  | <i>Non-Hispanic</i>     | 28,990 | 96.4 | 29,174 | 96.3 | 26,834 | 95.8 | 25,319 | 95.5 |

Note: Persons of Hispanic ethnicity can be of any race. St. Paul Police Department does not submit Part II arrest data to the BCA. Juveniles are defined as persons aged 17 and under; adults are defined as persons aged 18 and older. Note: In this table, for example, 21.6% for juveniles in 2009 indicates that 21.6% of all liquor law arrests were of juveniles. It does not mean that 21.6% of all juveniles were arrested for liquor laws.

## Homicide

**About the Indicator:** Homicide is closely associated with alcohol abuse. The International Classification of Diseases (ICD-10) measures all homicides, many of which are attributable to substance abuse.

The Centers for Disease Control and Prevention (CDC) provides a measure of Alcohol-Attributable Fractions (AAFs). AAFs are based on direct observations about the relationship between alcohol and a given health outcome. The AAF for homicide for both males and females is 47%.

In order to provide comprehensive data on homicides, both measures are presented.

**Data Source(s):** Minnesota Center for Health Statistics, Minnesota Department of Health, CDC Wonder Compressed Mortality Data, and the Alcohol-Related Disease Impact

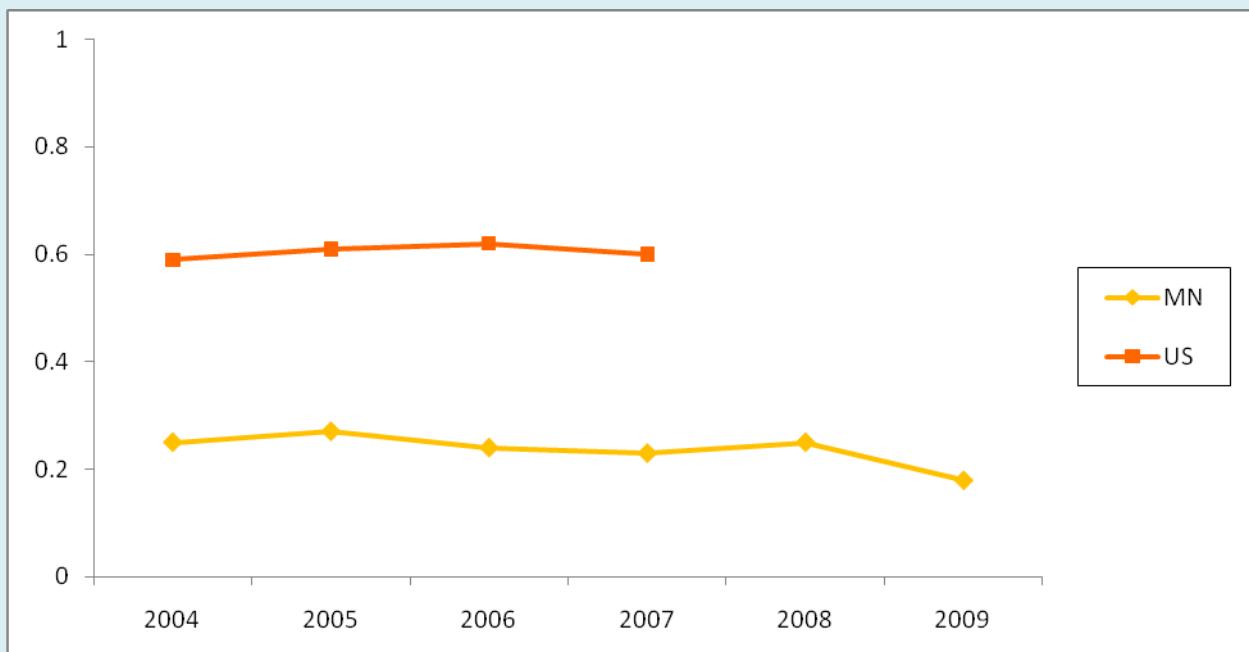
### **Section Summary:**

- Minnesota's homicide rate has been less than half that of the national average.
- The Minnesota homicide rate declined from 0.27 per 10,000 population in 2005 to 0.18 per 10,000 population in 2009.

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health and CDC Wonder

***Deaths from Homicide per 10,000 Population***



| Minnesota                  | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
|----------------------------|--------|--------|--------|--------|------|------|
| Deaths from Homicide       | 131    | 138    | 127    | 118    | 128  | 93   |
| Rate per 10,000 population | 0.25   | 0.27   | 0.24   | 0.23   | 0.25 | 0.18 |
| United States              | 2004   | 2005   | 2006   | 2007   | 2008 | 2009 |
| Deaths from Homicide       | 17,357 | 18,124 | 18,573 | 18,361 | N/A  | N/A  |
| Rate per 10,000 population | 0.59   | 0.61   | 0.62   | 0.60   | N/A  | N/A  |
|                            | 2004   | 2005   | 2006   | 2007   | 2009 | 2009 |
| MN:US**                    | 0.42   | 0.44   | 0.39   | 0.38   | N/A  | N/A  |

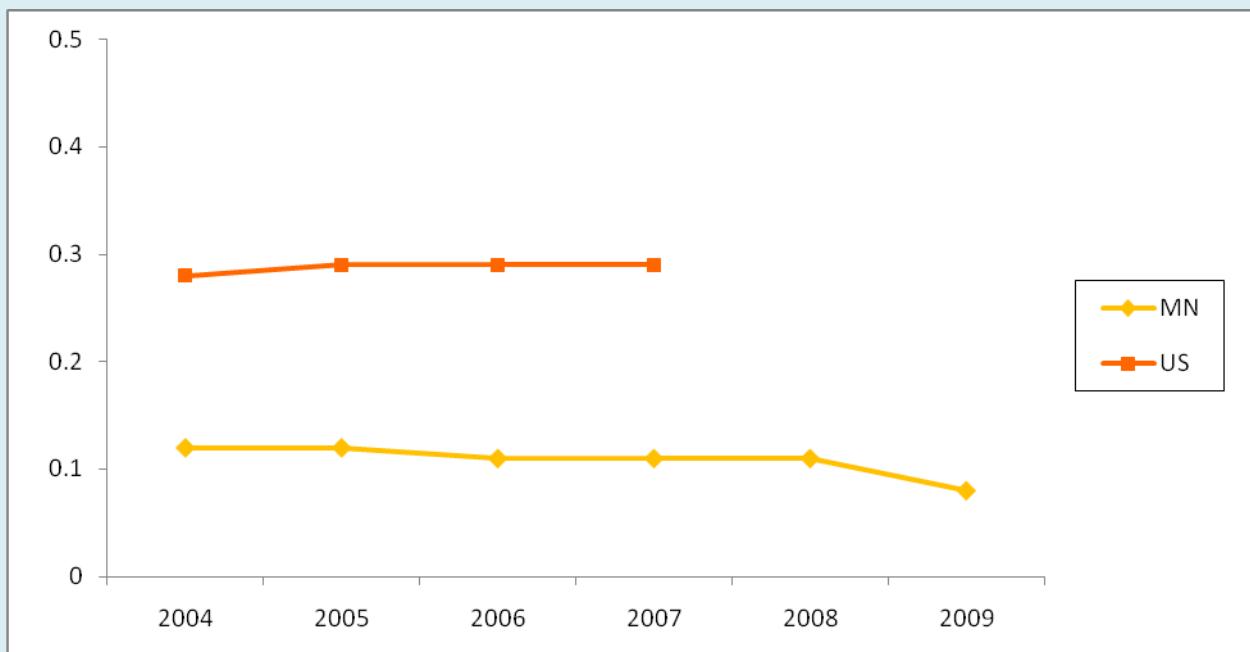
\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

N/A = Not available for 2008 and 2009

**Substance:** Alcohol

**Data Source:** Minnesota Department of Health, CDC Wonder, and ARDI

***Deaths from Alcohol-Related\* Homicide per 10,000 Population***



| Minnesota                                    | 2004  | 2005  | 2006  | 2007  | 2008 | 2009 |
|--|-------|-------|-------|-------|------|------|
| Deaths from <b>alcohol-related*</b> Homicide | 62    | 65    | 60    | 55    | 60   | 44   |
| Rate per 10,000 population                   | 0.12  | 0.12  | 0.11  | 0.11  | 0.11 | 0.08 |
| United States                                | 2004  | 2005  | 2006  | 2007  | 2008 | 2009 |
| Deaths from <b>alcohol-related*</b> Homicide | 8,158 | 8,518 | 8,729 | 8,630 | N/A  | N/A  |
| Rate per 10,000 population                   | 0.28  | 0.29  | 0.29  | 0.29  | N/A  | N/A  |
|  | 2004  | 2005  | 2006  | 2007  | 2009 | 2009 |
| MN:US**                                      | 0.43  | 0.41  | 0.38  | 0.38  | N/A  | N/A  |

\*= Alcohol-related suicide data are calculated using the AAF for homicide, 47%

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates  
N/A = Not available yet for 2008-2009

## School Disciplinary Incidents Involving Alcohol

**About the Indicator:** School disciplinary incidents among kindergarten through twelfth grade students involving alcohol were obtained by school district, then aggregated to the county level. Percentages are found by totaling each county's alcohol-related incidents and dividing them by the total amount of disciplinary incidents for that county.

Each year districts report all disciplinary incidents that result in an out-of-school suspension/removal of one day or longer and expulsions/exclusions.

**Data Source(s):** Safe and Healthy Minnesota Students (SAHMS) Portal, Minnesota Department of Education

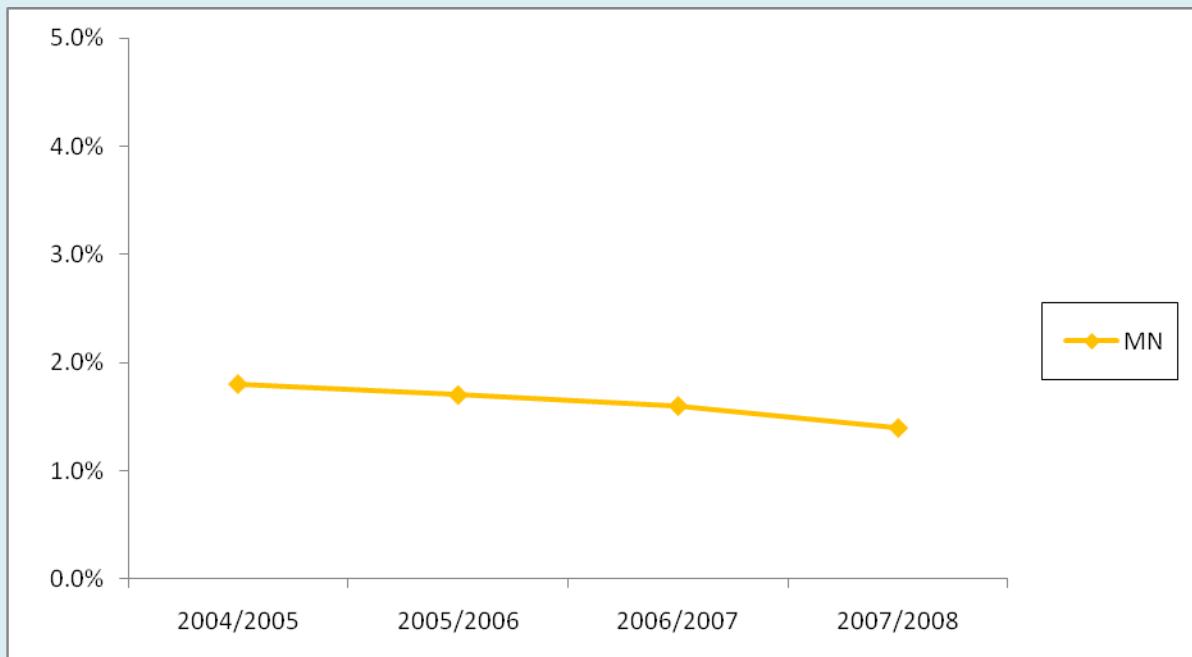
### Section Summary:

- The percent of all school disciplinary incidents in Minnesota that involved alcohol gradually declined from 1.8% in the 2004/2005 school year to 1.4% in the 2007/2008 school year.

**Substance:** Alcohol

**Data Source:** SAHMS

***Alcohol-Related School Disciplinary Incidents, Number and Percent of All Disciplinary Incidents***



|         | 2004/2005<br>School Year | 2005/2006<br>School Year | 2006/2007<br>School Year | 2007/2008<br>School Year |
|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| Number  | 1,003                    | 1,063                    | 1,111                    | 891                      |
| Percent | 1.8%                     | 1.7%                     | 1.6%                     | 1.4%                     |

Note: Percent here represents that percent of all school disciplinary incidents that involved alcohol, and not the percent of all students. For example, during the 2007/2008 school year, 1.4% of all disciplinary incidents involved alcohol. It does not mean that 1.4% of all students during the school year were disciplined for use or possession of alcohol.

## 4. Alcohol Use in Minnesota: Risk & Protective Factors

### Access

**About the Indicator:** Beginning in 2007, ninth and twelfth graders who reported drinking any alcohol in the past 30 days were asked how they obtained that alcohol. Students were asked to select all responses that applied. Responses indicating that they purchased alcohol from gas stations, convenience stores, bars or restaurants, liquor stores, or on the Internet were collapsed into the indicator “youth bought alcohol.” Responses indicating that they got alcohol from their friends, their parents, other family members, getting someone else to buy it for them, or at parties were collapsed into the indicator “youth social access to alcohol.” Responses indicating that they took alcohol from their home, a friend’s home, or from stores were collapsed into the indicator “youth took alcohol.”

**Data Source(s):** Minnesota Student Survey (MSS)

#### **Section Summary:**

- Students are most likely to report social access to alcohol (87%), getting it from someone or somewhere, and least likely to report buying alcohol (9%).
- Males were more likely than females to report buying alcohol; ninth graders were more likely than twelfth graders to report taking alcohol.

**Substance:** Alcohol

**Data Source:** MSS

***Youth Bought Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Bought the Alcohol from Someone or Somewhere, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 1,173 | 11% |
|                       | Female                             | 723   | 7%  |
|                       |                                    |       |     |
| <b>Grade</b>          | 9th                                | 608   | 8%  |
|                       | 12th                               | 1,288 | 10% |
|                       |                                    |       |     |
| <b>Race/Ethnicity</b> | White                              | 1,279 | 8%  |
|                       | African-American, African or Black | 114   | 17% |
|                       | American Indian                    | 53    | 19% |
|                       | Asian American/Pacific Islander    | 92    | 12% |
|                       | Hispanic/Latino                    | 113   | 13% |
|                       |                                    |       |     |
| <b>Region</b>         | Metro                              | 1,073 | 10% |
|                       | Non-Metro                          | 823   | 8%  |

***Youth Bought Alcohol: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Bought the Alcohol from Someone or Somewhere, by Gender and Grade, 2010***

|              |      | Male  |     | Female |    |
|--------------|------|-------|-----|--------|----|
|              |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b> | 9th  | 352   | 10% | 256    | 8% |
|              | 12th | 821   | 12% | 723    | 7% |

***Youth Bought Alcohol: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Bought the Alcohol from Someone or Somewhere, by Gender and Grade, 2010***

|                       |                                    | 9th grade |     | 12th grade |     |
|-----------------------|------------------------------------|-----------|-----|------------|-----|
|                       |                                    | N (#)     | %   | N (#)      | %   |
| <b>Race/Ethnicity</b> | White                              | 322       | 6%  | 957        | 9%  |
|                       | African-American, African or Black | 49        | 16% | 65         | 18% |
|                       | American Indian                    | 26        | 16% | 27         | 22% |
|                       | Asian American/Pacific Islander    | 37        | 11% | 55         | 12% |
|                       | Hispanic/Latino                    | 65        | 13% | 48         | 13% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

*Race-specific Data on Youth Buying Alcohol*

| White students reporting any alcohol use in the past 30 days, who bought the alcohol from someone or somewhere, by gender and grade, 2010                              |  |       |     |        |     |
|--|--|-------|-----|--------|-----|
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>  |  | 181   | 7%  | 141    | 5%  |
| 12th   |  | 598   | 11% | 359    | 6%  |
| African-American, African or Black students reporting any alcohol use in the past 30 days, who bought the alcohol from someone or somewhere, by gender and grade, 2010 |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>  |  | 27    | 16% | 22     | 15% |
| 12th   |  | 44    | 22% | 21     | 13% |
| American Indian students reporting any alcohol use in the past 30 days, who bought the alcohol from someone or somewhere, by gender and grade, 2010                    |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9th  |  | 13    | 14% | 13     | 18% |
| 12th   |  | 19    | 29% | 8      | 14% |
| Asian American/Pacific Islander students reporting any alcohol use in the past 30 days, who bought the alcohol from someone or somewhere, by gender and grade, 2010    |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>  |  | 17    | 11% | 20     | 11% |
| 12th   |  | 38    | 16% | 17     | 8%  |
| Hispanic/Latino students reporting any alcohol use in the past 30 days, who bought the alcohol from someone or somewhere, by gender and grade, 2010                    |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9th  |  | 43    | 16% | 22     | 9%  |
| 12th   |  | 33    | 16% | 15     | 8%  |

*Youth Bought Alcohol: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Bought the Alcohol from Someone or Somewhere, by Region and Race/Ethnicity, 2010*

| Race/Ethnicity                     | Metro |     | Non-Metro |     |
|------------------------------------|-------|-----|-----------|-----|
|                                    | N (#) | %   | N (#)     | %   |
| White                              | 674   | 9%  | 605       | 7%  |
| African-American, African or Black | 93    | 17% | 21        | 18% |
| American Indian                    | 14    | 16% | 39        | 20% |
| Asian American/Pacific Islander    | 77    | 12% | 15        | 12% |
| Hispanic/Latino                    | 65    | 12% | 48        | 15% |

**Substance:** Alcohol

**Data Source:** MSS

***Youth Social Access to Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Got the Alcohol from Someone or Somewhere, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 8,738  | 85% |
|                       | Female                             | 9,668  | 89% |
| <b>Grade</b>          | 9th                                | 6,303  | 81% |
|                       | 12th                               | 12,103 | 91% |
| <b>Race/Ethnicity</b> | White                              | 14,576 | 88% |
|                       | African-American, African or Black | 545    | 80% |
|                       | American Indian                    | 236    | 83% |
|                       | Asian American/Pacific Islander    | 651    | 83% |
|                       | Hispanic/Latino                    | 739    | 82% |
| <b>Region</b>         | Metro                              | 9,410  | 86% |
|                       | Non-Metro                          | 8,996  | 87% |

***Youth Social Access to Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Got the Alcohol from Someone or Somewhere, by Gender and Grade, 2010***

|              |                 | Male  |     | Female |     |
|--------------|-----------------|-------|-----|--------|-----|
|              |                 | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9 <sup>th</sup> | 2,786 | 77% | 3,517  | 83% |
|              | 12th            | 5,952 | 89% | 6,151  | 92% |

***Youth Social Access to Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Got the Alcohol from Someone or Somewhere, by Gender and Grade, 2010***

| <b>Race/Ethnicity</b>              | 9th grade |     | 12th grade |     |
|------------------------------------|-----------|-----|------------|-----|
|                                    | N (#)     | %   | N (#)      | %   |
| White                              | 4,399     | 81% | 10,177     | 91% |
| African-American, African or Black | 233       | 75% | 312        | 85% |
| American Indian                    | 135       | 82% | 101        | 83% |
| Asian American/Pacific Islander    | 263       | 79% | 388        | 86% |
| Hispanic/Latino                    | 413       | 81% | 326        | 85% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Race-specific Data on Youth Social Access to Alcohol**

| White students reporting any alcohol use in the past 30 days, who got the alcohol from someone or somewhere, by gender and grade, 2010                              |  |       |     |        |     |
|---|--|-------|-----|--------|-----|
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>   |  | 1,905 | 78% | 2,494  | 83% |
| 12th  |  | 4,971 | 90% | 5,206  | 93% |
| African-American, African or Black students reporting any alcohol use in the past 30 days, who got the alcohol from someone or somewhere, by gender and grade, 2010 |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>   |  | 114   | 69% | 119    | 81% |
| 12th  |  | 177   | 87% | 135    | 83% |
| American Indian students reporting any alcohol use in the past 30 days, who got the alcohol from someone or somewhere, by gender and grade, 2010                    |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>   |  | 73    | 80% | 62     | 84% |
| 12th  |  | 52    | 80% | 49     | 88% |
| Asian American/Pacific Islander students reporting any alcohol use in the past 30 days, who got the alcohol from someone or somewhere, by gender and grade, 2010    |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>   |  | 124   | 78% | 139    | 79% |
| 12th  |  | 202   | 84% | 186    | 88% |
| Hispanic/Latino students reporting any alcohol use in the past 30 days, who got the alcohol from someone or somewhere, by gender and grade, 2010                    |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>   |  | 208   | 79% | 205    | 83% |
| 12th  |  | 171   | 84% | 155    | 86% |

**Youth Social Access to Alcohol: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Got the Alcohol from Someone or Somewhere, by Region and Race/Ethnicity, 2010**

| Race/Ethnicity                     | Metro |     | Non-Metro |     |
|------------------------------------|-------|-----|-----------|-----|
|                                    | N (#) | %   | N (#)     | %   |
| White                              | 6,899 | 88% | 7,677     | 88% |
| African-American, African or Black | 446   | 80% | 99        | 83% |
| American Indian                    | 76    | 84% | 160       | 82% |
| Asian American/Pacific Islander    | 548   | 83% | 103       | 84% |
| Hispanic/Latino                    | 461   | 82% | 278       | 84% |

**Substance:** Alcohol

**Data Source:** MSS

***Youth Took Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Took the Alcohol from Someone or Somewhere, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 2,628 | 26% |
|                       | Female                             | 2,776 | 25% |
| <b>Grade</b>          | 9th                                | 3,028 | 39% |
|                       | 12th                               | 2,376 | 18% |
| <b>Race/Ethnicity</b> | White                              | 3,981 | 24% |
|                       | African-American, African or Black | 202   | 30% |
|                       | American Indian                    | 93    | 33% |
|                       | Asian American/Pacific Islander    | 192   | 24% |
|                       | Hispanic/Latino                    | 291   | 32% |
| <b>Region</b>         | Metro                              | 2,916 | 27% |
|                       | Non-Metro                          | 2,488 | 24% |

***Youth Took Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Took the Alcohol from Someone or Somewhere, by Gender and Grade, 2010***

|              |                 | Male  |     | Female |     |
|--------------|-----------------|-------|-----|--------|-----|
|              |                 | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9 <sup>th</sup> | 1,345 | 37% | 1,683  | 40% |
|              | 12th            | 1,283 | 19% | 1,093  | 16% |

***Youth Took Alcohol\*: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Took the Alcohol from Someone or Somewhere, by Gender and Grade, 2010***

|                       |                                    | 9th grade |     | 12th grade |     |
|-----------------------|------------------------------------|-----------|-----|------------|-----|
|                       |                                    | N (#)     | %   | N (#)      | %   |
| <b>Race/Ethnicity</b> | White                              | 2,107     | 39% | 1,874      | 17% |
|                       | African-American, African or Black | 118       | 38% | 84         | 23% |
|                       | American Indian                    | 60        | 36% | 33         | 27% |
|                       | Asian American/Pacific Islander    | 106       | 32% | 86         | 19% |
|                       | Hispanic/Latino                    | 193       | 38% | 98         | 26% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

***Race-specific Data on Youth Taking Alcohol***

| <b>White students reporting any alcohol use in the past 30 days, who took the alcohol from someone or somewhere, by gender and grade, 2010</b>                              |  |              |          |               |          |
|---|--|--------------|----------|---------------|----------|
| <b>Grade</b>  |  | <b>Male</b>  |          | <b>Female</b> |          |
|   |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>   |  | 908          | 37%      | 1,199         | 40%      |
| 12th  |  | 994          | 18%      | 880           | 16%      |
| <b>African-American, African or Black students reporting any alcohol use in the past 30 days, who took the alcohol from someone or somewhere, by gender and grade, 2010</b> |  |              |          |               |          |
| <b>Grade</b>  |  | <b>Male</b>  |          | <b>Female</b> |          |
|   |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>   |  | 58           | 35%      | 60            | 41%      |
| 12th  |  | 53           | 26%      | 31            | 19%      |
| <b>American Indian students reporting any alcohol use in the past 30 days, who took the alcohol from someone or somewhere, by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>  |  | <b>Male</b>  |          | <b>Female</b> |          |
|   |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>   |  | 31           | 34%      | 29            | 39%      |
| 12th  |  | 20           | 31%      | 13            | 23%      |
| <b>Asian American/Pacific Islander students reporting any alcohol use in the past 30 days, who took the alcohol from someone or somewhere, by gender and grade, 2010</b>    |  |              |          |               |          |
| <b>Grade</b>  |  | <b>Male</b>  |          | <b>Female</b> |          |
|   |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>   |  | 44           | 28%      | 62            | 35%      |
| 12th  |  | 52           | 22%      | 34            | 16%      |
| <b>Hispanic/Latino students reporting any alcohol use in the past 30 days, who took the alcohol from someone or somewhere, by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>  |  | <b>Male</b>  |          | <b>Female</b> |          |
|   |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>   |  | 99           | 38%      | 94            | 38%      |
| 12th  |  | 50           | 25%      | 48            | 27%      |

***Youth Took Alcohol: Minnesota Students Reporting Any Alcohol Use in the Past 30 Days, Who Took the Alcohol from Someone or Somewhere, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 1,975        | 25%      | 2,006            | 23%      |
| African-American, African or Black | 162          | 29%      | 40               | 34%      |
| American Indian                    | 37           | 41%      | 56               | 29%      |
| Asian American/Pacific Islander    | 158          | 24%      | 34               | 28%      |
| Hispanic/Latino                    | 182          | 32%      | 109              | 33%      |

## Perception of Harm

**About the Indicator:** Beginning in 2007, students were asked how much they thought people risked harming themselves physically or in other ways if they have 5 or more alcoholic drinks in a row on one occasion, once or twice per week. The statistics presented here show the number and percent of students responding with either “great risk” or “moderate risk” of harm. The other two selection options on the survey were “slight risk” and “no risk.”

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Females were more likely than males to report that they believed people risked harming themselves by frequently binge drinking.
- Perception of harm is highest among 9<sup>th</sup> graders.

**Substance:** Alcohol

**Data Source:** MSS

***Students Reporting that they believe people put themselves at Great or Moderate Risk of Harm by Frequently Binge Drinking, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 44,561       | 77%      |
|                       | Female                             | 51,439       | 85%      |
| <b>Grade</b>          | 6th                                | 34,810       | 81%      |
|                       | 9th                                | 35,162       | 84%      |
|                       | 12th                               | 26,028       | 78%      |
| <b>Race/Ethnicity</b> | White                              | 71,480       | 82%      |
|                       | African-American, African or Black | 4,489        | 80%      |
|                       | American Indian                    | 1,197        | 71%      |
|                       | Asian American/Pacific Islander    | 5,104        | 84%      |
|                       | Hispanic/Latino                    | 3,669        | 77%      |
| <b>Region</b>         | Metro                              | 52,741       | 83%      |
|                       | Non-Metro                          | 43,259       | 79%      |

***Students Reporting that they Believe People put Themselves at Great or Moderate Risk of Harm by Frequently Binge Drinking, by Gender and Grade, 2010***

|              |                 | <b>Male</b>  |          | <b>Female</b> |          |
|--------------|-----------------|--------------|----------|---------------|----------|
|              |                 | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| <b>Grade</b> | 6 <sup>th</sup> | 16,784       | 78%      | 18,026        | 83%      |
|              | 9th             | 16,355       | 80%      | 18,807        | 87%      |
|              | 12th            | 11,422       | 71%      | 14,606        | 85%      |

***Students Reporting that they Believe People put Themselves at Great or Moderate Risk of Harm by Frequently Binge Drinking, by Race/Ethnicity and Grade, 2010***

|                                    |  | <b>6<sup>th</sup> Grade</b> |          | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|--|-----------------------------|----------|------------------|----------|-------------------|----------|
|                                    |  | <b>N (#)</b>                | <b>%</b> | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| <b>Race/Ethnicity</b>              |  |                             |          |                  |          |                   |          |
| White                              |  | 24,192                      | 82%      | 26,530           | 84%      | 20,758            | 78%      |
| African-American, African or Black |  | 1,811                       | 77%      | 1,584            | 83%      | 1,094             | 83%      |
| American Indian                    |  | 624                         | 71%      | 374              | 70%      | 199               | 71%      |
| Asian American/Pacific Islander    |  | 1,737                       | 80%      | 1,905            | 87%      | 1,462             | 86%      |
| Hispanic/Latino                    |  | 1,532                       | 74%      | 1,364            | 79%      | 773               | 80%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

***Race-Specific Data on Youth Perception of Alcohol Harm***

| <b>White students reporting that they believe people put themselves at great or moderate risk of harm by frequently binge drinking, by gender and grade, 2010</b>                              |                 |             |     |               |     |
|--|-----------------|-------------|-----|---------------|-----|
|  |                 | <b>Male</b> |     | <b>Female</b> |     |
|  |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6 <sup>th</sup> | 11,663      | 79% | 12,529        | 85% |
|  | 9th             | 12,265      | 81% | 14,265        | 87% |
|  | 12th            | 9,014       | 70% | 11,744        | 85% |
| <b>African-American, African or Black students reporting that they believe people put themselves at great or moderate risk of harm by frequently binge drinking, by gender and grade, 2010</b> |                 |             |     |               |     |
|  |                 | <b>Male</b> |     | <b>Female</b> |     |
|  |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6 <sup>th</sup> | 897         | 75% | 914           | 79% |
|  | 9th             | 794         | 80% | 790           | 86% |
|  | 12th            | 502         | 78% | 592           | 87% |
| <b>American Indian students reporting that they believe people put themselves at great or moderate risk of harm by frequently binge drinking, by gender and grade, 2010</b>                    |                 |             |     |               |     |
|  |                 | <b>Male</b> |     | <b>Female</b> |     |
|  |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6 <sup>th</sup> | 322         | 68% | 302           | 74% |
|  | 9th             | 203         | 67% | 171           | 74% |
|  | 12th            | 96          | 64% | 103           | 79% |
| <b>Asian American/Pacific Islander students reporting that they believe people put themselves at great or moderate risk of harm by frequently binge drinking, by gender and grade, 2010</b>    |                 |             |     |               |     |
|  |                 | <b>Male</b> |     | <b>Female</b> |     |
|  |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6 <sup>th</sup> | 871         | 80% | 866           | 81% |
|  | 9th             | 853         | 83% | 1,052         | 90% |
|  | 12th            | 667         | 82% | 795           | 90% |
| <b>Hispanic/Latino students reporting that they believe people put themselves at great or moderate risk of harm by frequently binge drinking, by gender and grade, 2010</b>                    |                 |             |     |               |     |
|  |                 | <b>Male</b> |     | <b>Female</b> |     |
|  |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6 <sup>th</sup> | 740         | 72% | 792           | 76% |
|  | 9th             | 664         | 75% | 700           | 82% |
|  | 12th            | 349         | 76% | 424           | 84% |

***Students Reporting that They Believe People put Themselves at Great or Moderate Risk of Harm by Frequently Binge Drinking, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 35,842       | 84%      | 35,638           | 79%      |
| African-American, African or Black | 3,800        | 81%      | 689              | 79%      |
| American Indian                    | 451          | 72%      | 746              | 70%      |
| Asian American/Pacific Islander    | 4,322        | 85%      | 782              | 83%      |
| Hispanic/Latino                    | 2,328        | 78%      | 1,341            | 75%      |

## Perception of Disapproval

**About the Indicator:** In 2010, students were asked how they thought their parents or guardians would feel if they drank alcohol. Students were also asked how they thought their parents or guardians would feel if they drank alcohol. The statistics presented here show the number and percent of students responding that their close friends would either “greatly disapprove” or “disapprove.” The other two selection options on the survey were “would not care at all” and “would approve.”

In the previous Minnesota Profile the students were asked how their close friends would feel about the same two questions, but if they had 5 or more alcoholic drinks in a row on one occasion, once or twice per week. If you would like to see those data, they are available on the SUMN.org website.

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Females were more likely than males to report that they believed their parents or guardians would disapprove of them drinking alcohol.
- Perception of parents or guardians disapproval decreased with grade level for both male and female students.

**Substance:** Alcohol

**Data Source:** MSS

***Students Reporting that They Believe their Parents or Guardians would Disapprove or Greatly Disapprove if they Drank Alcohol, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 51,700       | 88%      |
|                       | Female                             | 55,437       | 91%      |
| <b>Grade</b>          | 6th                                | 41,542       | 96%      |
|                       | 9th                                | 39,180       | 92%      |
|                       | 12th                               | 26,415       | 79%      |
| <b>Race/Ethnicity</b> | White                              | 79,234       | 90%      |
|                       | African-American, African or Black | 5,184        | 91%      |
|                       | American Indian                    | 1,493        | 87%      |
|                       | Asian American/Pacific Islander    | 5,494        | 89%      |
|                       | Hispanic/Latino                    | 4,338        | 89%      |
| <b>Region</b>         | Metro                              | 58,471       | 91%      |
|                       | Non-Metro                          | 48,666       | 88%      |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Drank Alcohol, by Gender and Grade, 2010***

|              |      | <b>Male</b>  |          | <b>Female</b> |          |
|--------------|------|--------------|----------|---------------|----------|
|              |      | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| <b>Grade</b> | 6th  | 20,470       | 95%      | 21,072        | 96%      |
|              | 9th  | 18,800       | 91%      | 20,380        | 92%      |
|              | 12th | 12,430       | 76%      | 13,985        | 81%      |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Drank Alcohol, by Race/Ethnicity and Grade, 2010***

| <b>Race/Ethnicity</b>              | <b>6<sup>th</sup> Grade</b> |          | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|-----------------------------|----------|------------------|----------|-------------------|----------|
|                                    | <b>N (#)</b>                | <b>%</b> | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| White                              | 28,585                      | 97%      | 29,493           | 93%      | 21,156            | 78%      |
| African-American, African or Black | 2,240                       | 94%      | 1,816            | 92%      | 1,128             | 83%      |
| American Indian                    | 817                         | 93%      | 476              | 87%      | 200               | 69%      |
| Asian American/Pacific Islander    | 2,038                       | 93%      | 2,028            | 91%      | 1,428             | 83%      |
| Hispanic/Latino                    | 1,940                       | 92%      | 1,588            | 89%      | 810               | 83%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

***Race-Specific Data on Youth Perception of Parents or Guardians Disapproval***

| <b>White students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they frequently drank alcohol, by gender and grade, 2010</b>                              |  |              |          |               |          |
|--|--|--------------|----------|---------------|----------|
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 14,188       | 96%      | 14,397        | 97%      |
| 9th  |  | 14,108       | 92%      | 15,385        | 93%      |
| 12th   |  | 9,949        | 76%      | 11,207        | 80%      |
| <b>African-American, African or Black students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they frequently drank alcohol, by gender and grade, 2010</b> |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 1,3126       | 94%      | 1,114         | 94%      |
| 9th  |  | 930          | 91%      | 886           | 94%      |
| 12th   |  | 533          | 81%      | 595           | 85%      |
| <b>American Indian students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they frequently drank alcohol, by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 432          | 92%      | 385           | 94%      |
| 9th  |  | 266          | 88%      | 210           | 88%      |
| 12th   |  | 95           | 63%      | 105           | 77%      |
| <b>Asian American/Pacific Islander students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they frequently drank alcohol, by gender and grade, 2010</b>    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 1,004        | 92%      | 1,034         | 94%      |
| 9th  |  | 916          | 88%      | 1,112         | 93%      |
| 12th   |  | 647          | 79%      | 781           | 88%      |
| <b>Hispanic/Latino students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they frequently drank alcohol, by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 948          | 92%      | 992           | 93%      |
| 9th  |  | 798          | 87%      | 790           | 90%      |
| 12th   |  | 380          | 82%      | 430           | 84%      |

***Students Reporting That They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Drank Alcohol, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 39,351       | 91%      | 39,883           | 88%      |
| African-American, African or Black | 4,404        | 91%      | 780              | 89%      |
| American Indian                    | 573          | 89%      | 920              | 86%      |
| Asian American/Pacific Islander    | 4,644        | 90%      | 850              | 89%      |
| Hispanic/Latino                    | 2,733        | 89%      | 1,605            | 89%      |

## 5. Tobacco Use in Minnesota: Consumption Patterns

### Adults Reporting Current Tobacco Use

**About the Indicator:** Current cigarette use is defined here as adults reporting smoking cigarettes on one or more days within the past 30 days. Daily cigarette use is defined here as persons 18 and over reporting smoking 100 or more cigarettes in their lifetime and now smoke cigarettes every day.

**Data Source(s):** National Survey on Drug Use and Health (NSDUH), Behavioral Risk Factor Surveillance System (BRFSS) and the Minnesota Survey of Adult Substance Use (MNSASU)

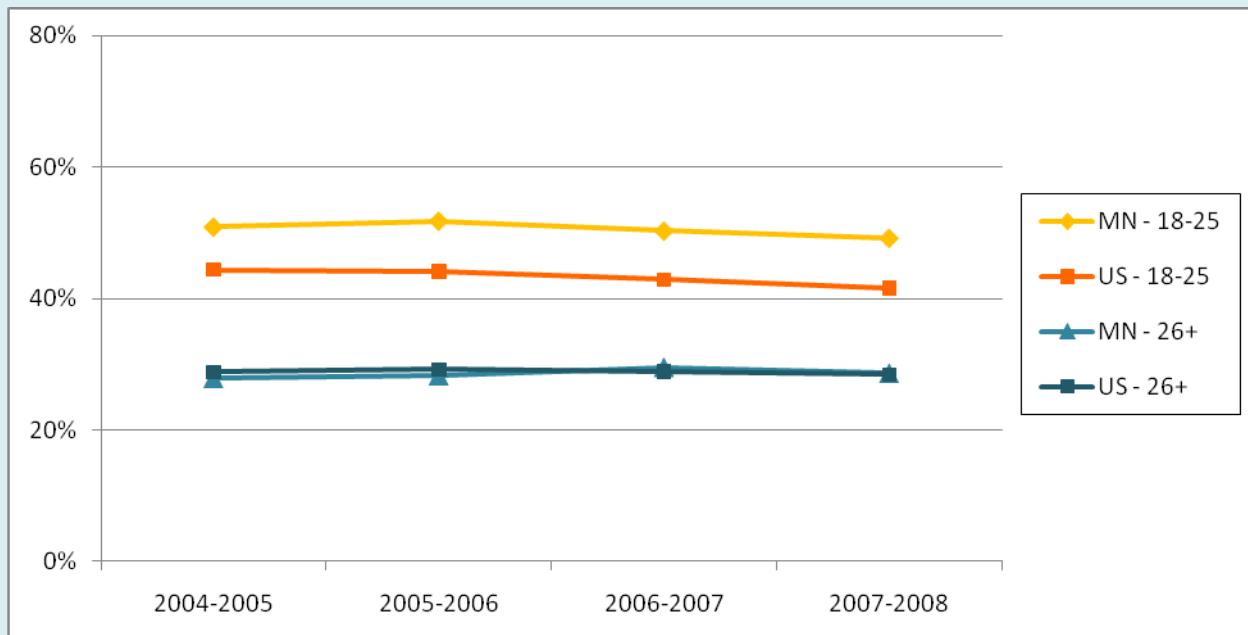
#### Section Summary:

- While reported cigarettes smoking is on the decline in Minnesota among 18 to 25 year-olds, it has been increasing slightly among adults age 26 and older. *National Survey on Drug Use and Health*
- Another national survey found slightly decreasing rates of daily smoking among men in Minnesota from 2007 to 2009, but a flat trend among women. *Behavioral Risk Factor Surveillance System* (It is important to note that BRFSS asks respondents about daily smoking, while NSDUH and MNSASU ask respondents about any smoking in the past month.)

**Substance:** Tobacco

**Data Source:** NSDUH

***Adults Reporting any Tobacco Product Use in the Past Month***



| Minnesota        | 2004-2005*  | 2005-2006*  | 2006-2007*  | 2007-2008*  |
|------------------|-------------|-------------|-------------|-------------|
| Total (Ages 12+) | 29.8%       | 30.1%       | 30.8%       | 29.9%       |
| Ages 12 thru 17  | 15.8%       | 15.3%       | 14.6%       | 13.8%       |
| Ages 18 thru 25  | 50.9%       | 51.8%       | 50.3%       | 49.2%       |
| Ages 26 and Over | 27.8%       | 28.2%       | 29.5%       | 28.6%       |
| United States    | 2004-2005*  | 2005-2006*  | 2006-2007*  | 2007-2008*  |
| Total (Ages 12+) | 29.3%       | 29.5%       | 29.1%       | 28.5%       |
| Ages 12 thru 17  | 13.8%       | 13.0%       | 12.7%       | 11.9%       |
| Ages 18 thru 25  | 44.4%       | 44.1%       | 42.9%       | 41.6%       |
| Ages 26 and Over | 28.8%       | 29.2%       | 28.9%       | 28.4%       |
| <b>MN:US**</b>   | <b>1.02</b> | <b>1.02</b> | <b>1.06</b> | <b>1.05</b> |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

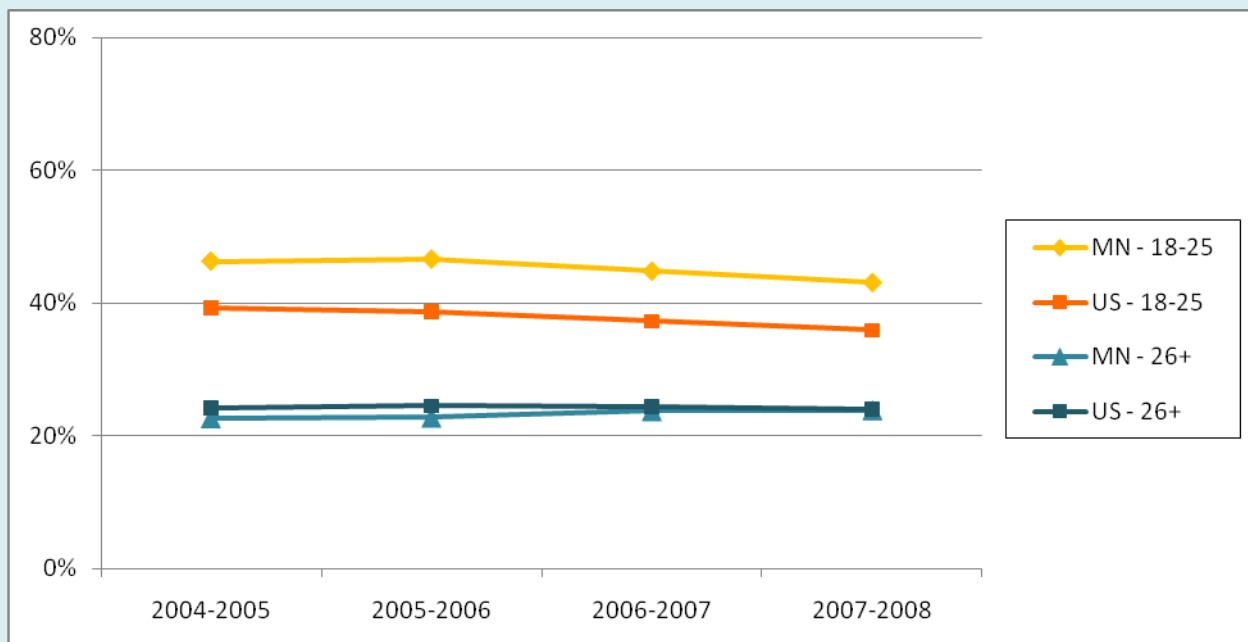
\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Tobacco

**Data Source:** NSDUH

***Adults Reporting any Cigarette Smoking in the Past Month***



| Minnesota        | 2004-2005* | 2005-2006* | 2006-2007* | 2007-2008* |
|------------------|------------|------------|------------|------------|
| Total (Ages 12+) | 25.0%      | 25.0%      | 25.4%      | 25.2%      |
| Ages 12 thru 17  | 12.9%      | 12.4%      | 11.7%      | 11.1%      |
| Ages 18 thru 25  | 46.3%      | 46.6%      | 44.8%      | 43.1%      |
| Ages 26 and Over | 22.7%      | 22.8%      | 23.8%      | 23.9%      |
| United States    | 2004-2005* | 2005-2006* | 2006-2007* | 2007-2008* |
| Total (Ages 12+) | 24.9%      | 25.0%      | 24.6%      | 24.1%      |
| Ages 12 thru 17  | 11.3%      | 10.6%      | 10.1%      | 9.5%       |
| Ages 18 thru 25  | 39.3%      | 38.7%      | 37.3%      | 35.9%      |
| Ages 26 and Over | 24.2%      | 24.5%      | 24.4%      | 24.0%      |
|                  | 2004-2005* | 2005-2006* | 2006-2007* | 2007-2008* |
| MN:US**          | 1.00       | 1.00       | 1.03       | 1.05       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

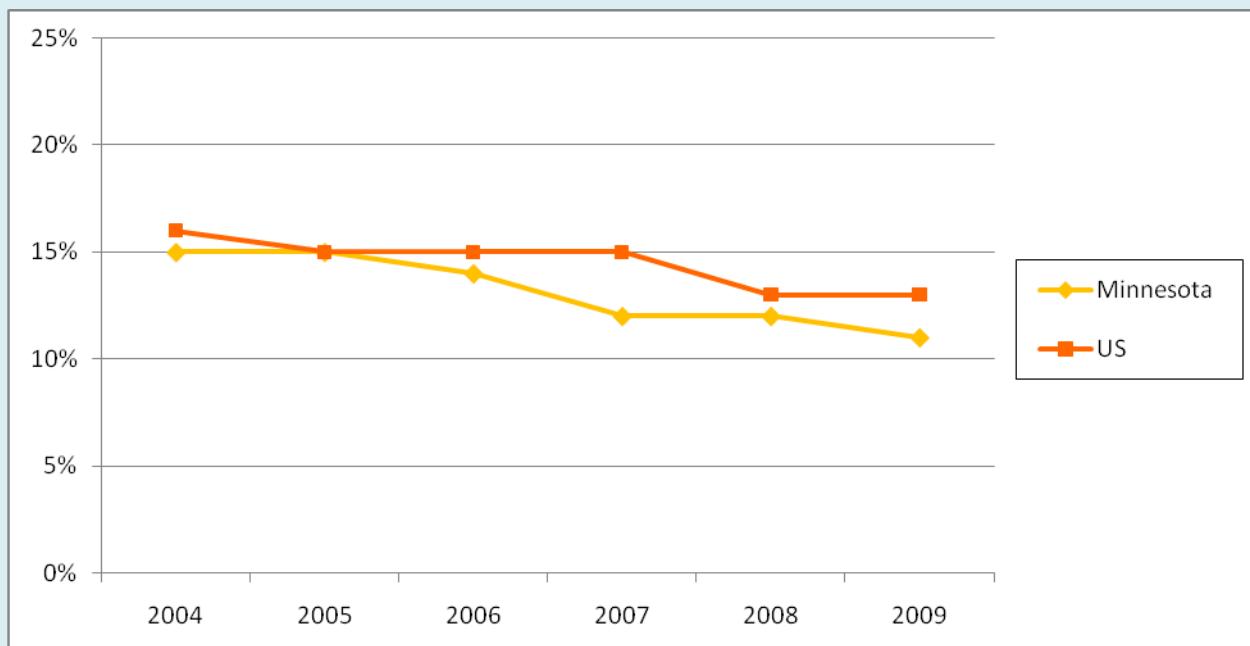
\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Tobacco

**Data Source:** BRFSS

***Adults Reporting Smoking 100 or More Cigarettes in Their Lifetime and Now Smoke Cigarettes Every Day***



|           | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------|------|------|------|------|------|------|
| Minnesota | 15%  | 15%  | 14%  | 12%  | 12%  | 11%  |
| US        | 16%  | 15%  | 15%  | 15%  | 13%  | 13%  |
| MN:US*    | 0.96 | 0.97 | 0.93 | 0.86 | 0.90 | 0.89 |

\* Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Minnesota Adults Reporting Daily Cigarette Use by Gender, Age and Race/Ethnicity**

|                       |                  | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------------------|------|------|------|------|------|------|
| <b>Gender</b>         | Male             | 17%  | 16%  | 14%  | 14%  | 13%  | 12%  |
|                       | Female           | 14%  | 13%  | 14%  | 11%  | 11%  | 11%  |
| <b>Age</b>            | Ages 18 thru 24  | 21%  | 20%  | 19%  | 16%  | 16%  | 12%  |
|                       | Ages 25 thru 34  | 16%  | 16%  | 14%  | 15%  | 13%  | 12%  |
|                       | Ages 35 thru 44  | 18%  | 18%  | 16%  | 13%  | 12%  | 13%  |
|                       | Ages 45 thru 54  | 16%  | 16%  | 16%  | 15%  | 14%  | 13%  |
|                       | Ages 55 thru 64  | 14%  | 12%  | 11%  | 11%  | 11%  | 12%  |
|                       | Ages 65 and over | 6%   | 7%   | 5%   | 5%   | 6%   | 5%   |
| <b>Race/Ethnicity</b> | White            | 15%  | 15%  | 14%  | 12%  | 12%  | 11%  |
|                       | Black            | N/A  | N/A  | 15%  | 12%  | 11%  | N/A  |
|                       | Hispanic         | N/A  | N/A  | N/A  | N/A  | 8%   | 7%   |
|                       | Other            | N/A  | N/A  | 11%  | N/A  | 14%  | N/A  |

N/A = Not available if the unweighted sample size for the denominator was < 50 or the CI half width was > 10 for any cell, or if the state did not collect data for that calendar year.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Tobacco

**Data Source:** MNSASU

***Adults Reporting Smoking Cigarettes on One or More Days within the Past 30 Days***

| <b>Percent of Minnesota adults reporting smoking cigarettes within the past 30 days by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|---|---------------------------------|-------------|---------------|
|   |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 36.6%       | 35.3%         |
|   | Ages 21 thru 24                 | 47.5%       | 39.8%         |
|   | Ages 25 thru 44                 | 26.3%       | 24.1%         |
|   | Ages 45 thru 64                 | 21.2%       | 18.9%         |
|   | Ages 65 and over                | 7.4%        | 6.4%          |
|   |                                 |             |               |
| <b>Race/Ethnicity</b>   | White                           | 23.8%       | 20.7%         |
|   | African American or Black       | 24.3%       | 29.5%         |
|   | American Indian                 | 51.0%       | 56.0%         |
|   | Asian American/Pacific Islander | 20.5%       | 15.6%         |
|   | Hispanic/Latino                 | 31.9%       | 16.0%         |
|   | Bi-Racial/Multi-Racial          | 39.1%       | 51.0%         |
|   |                                 |             |               |
| <b>Region</b>   | Metro                           | 23.3%       | 21.0%         |
|   | Non-Metro                       | 25.3%       | 21.9%         |
|   | Total                           | 24.2%       | 21.3%         |

***Percent of Minnesota Adults Reporting Smoking Cigarettes within the Past 30 Days by Race/Ethnicity and Region, 2004/2005***

|                       |                                 | <b>METRO*</b> | <b>NON-METRO</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> | White                           | 21.3%         | 23.1%            |
|                       | African American or Black       | 28.0%         | 13.0%            |
|                       | American Indian                 | 46.8%         | 61.4%            |
|                       | Asian American/Pacific Islander | 19.9%         | 7.3%             |
|                       | Hispanic/Latino                 | 20.3%         | 32.4%            |
|                       | Bi-Racial/Multi-Racial          | 43.9%         | 47.1%            |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Youth Reporting Current Tobacco Use

**About the Indicator:** Reported tobacco use within the past 30 days (“30-day use”) is a frequent measure of current use, especially among youth. Youth tobacco use is presented here using 3 statistics: smoking a cigarette on one or more days, smoking cigarettes on 20 or more days, and use of chewing tobacco or snuff.

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Reported 30-day cigarette smoking dropped by half among students from 2001 to 2010 (20% down to 10%).
- Students living outside the seven-county metro area are slightly more likely to report smoking cigarettes on 20 or more days of the past 30 days.

**Substance:** Tobacco

**Data Source:** MSS

***Students Reporting Smoking a Cigarette on One or More Days within the Past 30 Days***

| Minnesota                  | 2001   | 2004   | 2007   | 2010   |
|----------------------------|--------|--------|--------|--------|
| Number reporting smoking   | 22,712 | 18,627 | 15,562 | 12,938 |
| Percent of all respondents | 20%    | 15%    | 12%    | 10%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 6,751  | 11% |
|                       | Female                             | 6,187  | 10% |
| <b>Grade</b>          | 6th                                | 855    | 2%  |
|                       | 9th                                | 4,535  | 10% |
|                       | 12th                               | 7,548  | 22% |
| <b>Race/Ethnicity</b> | White                              | 14,972 | 15% |
|                       | African-American, African or Black | 759    | 11% |
|                       | American Indian                    | 1,138  | 20% |
|                       | Asian American/Pacific Islander    | 786    | 12% |
|                       | Hispanic/Latino                    | 972    | 18% |
| <b>Region</b>         | Metro                              | 6,265  | 9%  |
|                       | Non-Metro                          | 6,673  | 12% |

***Minnesota Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender and Grade, 2010***

|              |      | Male  |     | Female |     |
|--------------|------|-------|-----|--------|-----|
|              |      | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 6th  | 472   | 2%  | 383    | 2%  |
|              | 9th  | 2,175 | 10% | 2,360  | 10% |
|              | 12th | 4,104 | 24% | 3,444  | 19% |

***Race-specific Data on any Cigarette Smoking in the Past 30 Days***

| <b>White Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender and Grade, 2010</b>                              |  |              |          |               |          |
|--|--|--------------|----------|---------------|----------|
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 237          | 2%       | 148           | 1%       |
| 9th  |  | 1,382        | 9%       | 1,591         | 9%       |
| 12th   |  | 3,295        | 24%      | 2,866         | 20%      |
| <b>African-American, African or Black Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender and Grade, 2010</b> |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 44           | 3%       | 34            | 3%       |
| 9th  |  | 131          | 11%      | 79            | 8%       |
| 12th   |  | 142          | 19%      | 79            | 10%      |
| <b>American Indian Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender and Grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 33           | 7%       | 44            | 10%      |
| 9th  |  | 81           | 25%      | 67            | 26%      |
| 12th   |  | 56           | 34%      | 58            | 43%      |
| <b>Asian American/Pacific Islander Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender and Grade, 2010</b>    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 22           | 2%       | 13            | 1%       |
| 9th  |  | 86           | 8%       | 87            | 7%       |
| 12th   |  | 142          | 16%      | 94            | 10%      |
| <b>Hispanic/Latino Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Gender and Grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 49           | 4%       | 49            | 4%       |
| 9th  |  | 157          | 16%      | 139           | 15%      |
| 12th   |  | 136          | 28%      | 90            | 17%      |

***Minnesota Students Reporting Smoking a Cigarette on One or More Days in the Past 30 Days by Race/Ethnicity and Region, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 4,200        | 9%       | 5,319            | 11%      |
| African-American, African or Black | 401          | 8%       | 108              | 11%      |
| American Indian                    | 101          | 15%      | 238              | 21%      |
| Asian American/Pacific Islander    | 353          | 6%       | 91               | 9%       |
| Hispanic/Latino                    | 380          | 12%      | 240              | 13%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Tobacco

**Data Source:** MSS

***Students Reporting Smoking Cigarettes on 20 or More Days within the Past 30 Days***

| Minnesota                  | 2004  | 2007  | 2010  |
|----------------------------|-------|-------|-------|
| Number smoking 20+ days    | 7,920 | 5,914 | 4,626 |
| Percent of all respondents | 6%    | 5%    | 4%    |

Note: Counties did not have to participate in the MSS each of the 3 years to be included in the counts presented here.

***Minnesota Students Reporting Smoking Cigarettes on 20 or More Days within the Past 30 Days by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 2,541 | 4% |
|                       | Female                             | 2,085 | 3% |
| <b>Grade</b>          | 6th                                | 90    | 0% |
|                       | 9th                                | 1,290 | 3% |
|                       | 12th                               | 3,246 | 9% |
| <b>Race/Ethnicity</b> | White                              | 6,566 | 6% |
|                       | African-American, African or Black | 251   | 4% |
|                       | American Indian                    | 490   | 9% |
|                       | Asian American/Pacific Islander    | 298   | 4% |
|                       | Hispanic/Latino                    | 315   | 6% |
| <b>Region</b>         | Metro                              | 2,044 | 3% |
|                       | Non-Metro                          | 2,582 | 5% |

***Minnesota Students Reporting Smoking Cigarettes on 20 or More Days within the Past 30 Days by Gender and Grade, 2010***

|              |      | Male  |     | Female |    |
|--------------|------|-------|-----|--------|----|
|              |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b> | 6th  | 48    | 0%  | 42     | 0% |
|              | 9th  | 719   | 3%  | 571    | 2% |
|              | 12th | 1,774 | 10% | 1,472  | 8% |

**Race-specific Data on Smoking 20 or More Days in the Past 30 Days**

| <b>White Students Reporting Smoking Cigarettes on 20 or More Days Within the Past 30 Days by Gender and Grade, 2010</b>                              |  |              |          |               |          |
|--|--|--------------|----------|---------------|----------|
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 27           | 0%       | 19            | 0%       |
| 9th  |  | 441          | 3%       | 400           | 2%       |
| 12th   |  | 1,427        | 11%      | 1,246         | 9%       |
| <b>African-American, African or Black students Reporting Smoking Cigarettes on 20 or More Days within the Past 30 Days by Gender and Grade, 2010</b> |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 3            | 0%       | 2             | 0%       |
| 9th  |  | 41           | 4%       | 10            | 1%       |
| 12th   |  | 52           | 7%       | 28            | 4%       |
| <b>American Indian students reporting smoking cigarettes on 20 or more days within the past 30 days by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 1            | 0%       | 4             | 1%       |
| 9th  |  | 36           | 11%      | 25            | 10%      |
| 12th   |  | 36           | 22%      | 29            | 21%      |
| <b>Asian American/Pacific Islander students reporting smoking cigarettes on 20 or more days within the past 30 days by gender and grade, 2010</b>    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 2            | 0%       | 1             | 0%       |
| 9th  |  | 32           | 0%       | 20            | 0%       |
| 12th   |  | 60           | 7%       | 28            | 3%       |
| <b>Hispanic/Latino students reporting smoking cigarettes on 20 or more days within the past 30 days by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 6th  |  | 4            | 0%       | 6             | 1%       |
| 9th  |  | 31           | 3%       | 13            | 1%       |
| 12th   |  | 48           | 6%       | 24            | 5%       |

***Minnesota Students Reporting Smoking Cigarettes on 20 or More Days within the Past 30 Days by Race/Ethnicity and Region, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |    | <b>Non-Metro</b> |    |
|------------------------------------|--------------|----|------------------|----|
|                                    | N (#)        | %  | N (#)            | %  |
| White                              | 1,458        | 3% | 2,102            | 5% |
| African-American, African or Black | 103          | 2% | 33               | 3% |
| American Indian                    | 34           | 5% | 97               | 9% |
| Asian American/Pacific Islander    | 107          | 2% | 36               | 4% |
| Hispanic/Latino                    | 72           | 2% | 54               | 3% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Tobacco

**Data Source:** MSS

***Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 Days***

| Minnesota                  | 2001  | 2004  | 2007  | 2010  |
|----------------------------|-------|-------|-------|-------|
| Number reporting use       | 4,740 | 4,067 | 6,275 | 6,852 |
| Percent of all respondents | 4%    | 3%    | 5%    | 6%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 Days by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 5,829 | 10% |
|                       | Female                             | 1,023 | 2%  |
| <b>Grade</b>          | 6th                                | 442   | 1%  |
|                       | 9th                                | 2,195 | 5%  |
|                       | 12th                               | 4,215 | 12% |
| <b>Race/Ethnicity</b> | White                              | 5,468 | 6%  |
|                       | African-American, African or Black | 240   | 4%  |
|                       | American Indian                    | 138   | 8%  |
|                       | Asian American/Pacific Islander    | 120   | 2%  |
|                       | Hispanic/Latino                    | 227   | 4%  |
| <b>Region</b>         | Metro                              | 2,862 | 4%  |
|                       | Non-Metro                          | 3,990 | 7%  |

***Minnesota Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 Days by Gender and Grade, 2010***

|              |      | Male  |     | Female |    |
|--------------|------|-------|-----|--------|----|
|              |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b> | 6th  | 310   | 1%  | 132    | 1% |
|              | 9th  | 1,793 | 8%  | 402    | 2% |
|              | 12th | 3,726 | 22% | 489    | 3% |

**Race-Specific Data on Chewing Tobacco use in the Past 30 Days**

| White Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 Days by Gender and Grade, 2010                              |       |       |     |        |   |
|---|-------|-------|-----|--------|---|
| Grade   |       | Male  |     | Female |   |
|   |       | N (#) | %   | N (#)  | % |
| 6th   | 179   | 1%    | 51  | 0%     |   |
| 9th   | 1,322 | 8%    | 269 | 2%     |   |
| 12th  | 3,238 | 24%   | 409 | 3%     |   |
| African-American, African or Black Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 days by Gender and Grade, 2010 |       |       |     |        |   |
| Grade   |       | Male  |     | Female |   |
|   |       | N (#) | %   | N (#)  | % |
| 6th   | 23    | 2%    | 13  | 1%     |   |
| 9th   | 76    | 7%    | 19  | 2%     |   |
| 12th  | 87    | 12%   | 22  | 3%     |   |
| American Indian Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 days by Gender and Grade, 2010                    |       |       |     |        |   |
| Grade   |       | Male  |     | Female |   |
|   |       | N (#) | %   | N (#)  | % |
| 6th   | 17    | 3%    | 14  | 3%     |   |
| 9th   | 51    | 15%   | 15  | 6%     |   |
| 12th  | 36    | 22%   | 5   | 4%     |   |
| Asian American/Pacific Islander Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 days by Gender and Grade, 2010    |       |       |     |        |   |
| Grade   |       | Male  |     | Female |   |
|   |       | N (#) | %   | N (#)  | % |
| 6th   | 7     | 1%    | 5   | 0%     |   |
| 9th   | 37    | 3%    | 9   | 1%     |   |
| 12th  | 55    | 6%    | 7   | 1%     |   |
| Hispanic/Latino Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 days by Gender and Grade, 2010                    |       |       |     |        |   |
| Grade   |       | Male  |     | Female |   |
|   |       | N (#) | %   | N (#)  | % |
| 6th   | 24    | 2%    | 21  | 2%     |   |
| 9th   | 69    | 7%    | 28  | 3%     |   |
| 12th  | 70    | 14%   | 15  | 3%     |   |

***Minnesota Students Reporting Use of Chewing Tobacco or Snuff within the Past 30 Days by Race/Ethnicity and Region, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 2,111        | 5%       | 3,357            | 7%       |
| African-American, African or Black | 174          | 3%       | 66               | 7%       |
| American Indian                    | 37           | 5%       | 101              | 9%       |
| Asian American/Pacific Islander    | 79           | 1%       | 41               | 4%       |
| Hispanic/Latino                    | 124          | 4%       | 103              | 5%       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Age at First Use of Tobacco

**About the Indicator:** Prevention planners may use data about age of first use as one factor in determining when to initiate prevention programs, policies, and practices. In addition, these data are valuable for reporting purposes. Some grantees are required to report age of first use as one their GPRA measures.

Age at first use of tobacco is presented here using two statistics: age at which students first smoked all or part of a cigarette and age at which students first smoked a cigar or used chewing tobacco or snuff.

**Data Source(s):** Minnesota Student Survey (MSS)

### Section Summary:

- Approximately 12% of students reported first smoking all or part of a cigarette at age 13 or younger.
- More males than females reported smoking a cigar, or using chewing tobacco or snuff, at the age of 13 or younger.

**Substance:** Tobacco

**Data Source:** Minnesota Student Survey

***Age at which Students Reported First Smoking All or Part of a Cigarette***

|                                |        | <b>N (#)</b> | <b>%</b> |
|--------------------------------|--------|--------------|----------|
| <b>10 years old or younger</b> | Male   | 3,325        | 5.4%     |
|                                | Female | 2,388        | 3.8%     |
| <b>11 years old</b>            | Male   | 1,392        | 2.3%     |
|                                | Female | 1,226        | 1.9%     |
| <b>12 years old</b>            | Male   | 1,514        | 2.5%     |
|                                | Female | 1,433        | 2.3%     |
| <b>13 years old</b>            | Male   | 1,720        | 2.8%     |
|                                | Female | 1,883        | 3.0%     |
| <b>14 years old</b>            | Male   | 2,064        | 3.4%     |
|                                | Female | 2,395        | 3.8%     |
| <b>15 years old</b>            | Male   | 1,519        | 2.5%     |
|                                | Female | 1,575        | 2.5%     |
| <b>16 years old</b>            | Male   | 1,352        | 2.2%     |
|                                | Female | 1,314        | 2.1%     |
| <b>17 years old or older</b>   | Male   | 1,588        | 2.6%     |
|                                | Female | 1,361        | 2.2%     |

***Minnesota Students Reporting They First Smoked All or Part of a Cigarette at Age 13 or Younger, by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 7,951        | 13%      |
|                       | Female                             | 6,930        | 11%      |
|                       | Total                              | 14,881       | 12%      |
| <b>Grade</b>          | 6th                                | 2,950        | 7%       |
|                       | 9th                                | 6,883        | 15%      |
|                       | 12th                               | 5,048        | 15%      |
| <b>Race/Ethnicity</b> | White                              | 9,167        | 10%      |
|                       | African-American, African or Black | 964          | 15%      |
|                       | American Indian                    | 544          | 30%      |
|                       | Asian American/Pacific Islander    | 810          | 13%      |
|                       | Hispanic/Latino                    | 1,110        | 21%      |
| <b>Region</b>         | Metro                              | 6,980        | 10%      |
|                       | Non-Metro                          | 7,901        | 14%      |

**Average Age Minnesota Students First Smoked All or Part of a Cigarette by Gender and Grade, 2010**

|                       |                        | Male | Female |
|-----------------------|------------------------|------|--------|
| <b>7-County Metro</b> | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 12   | 13     |
|                       | 12 <sup>th</sup> Grade | 14   | 15     |
| <b>Non-metro</b>      | 6 <sup>th</sup> Grade  | 11   | 10     |
|                       | 9 <sup>th</sup> Grade  | 12   | 12     |
|                       | 12 <sup>th</sup> Grade | 14   | 14     |
| <b>Total</b>          | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 12   | 13     |
|                       | 12 <sup>th</sup> Grade | 14   | 14     |

Note: Age category options on the survey include "10 or younger" and "17 or older." To calculate an average, these categories were set at 10 and 17 respectively. Average age for 6th graders will be lower than for 9th graders, and 9th lower than 12th, reflecting the ages of students in each grade. Average age was calculated only for those students who reported ever smoking all or part of a cigarette.

**Substance:** Tobacco

**Data Source:** Minnesota Student Survey

***Age at which Students Reported First Smoking a Cigar or Using Snuff***

|                                |        | <b>N (#)</b> | <b>%</b> |
|--------------------------------|--------|--------------|----------|
| <b>10 years old or younger</b> | Male   | 1,654        | 2.7%     |
|                                | Female | 620          | 1.0%     |
| <b>11 years old</b>            | Male   | 806          | 1.3%     |
|                                | Female | 295          | 0.5%     |
| <b>12 years old</b>            | Male   | 1,113        | 1.8%     |
|                                | Female | 427          | 0.7%     |
| <b>13 years old</b>            | Male   | 1,446        | 2.4%     |
|                                | Female | 704          | 1.1%     |
| <b>14 years old</b>            | Male   | 2,318        | 3.8%     |
|                                | Female | 1,176        | 1.9%     |
| <b>15 years old</b>            | Male   | 2,036        | 3.3%     |
|                                | Female | 960          | 1.5%     |
| <b>16 years old</b>            | Male   | 2,080        | 3.4%     |
|                                | Female | 1,242        | 2.0%     |
| <b>17 years old or older</b>   | Male   | 2,562        | 4.2%     |
|                                | Female | 1,653        | 2.6%     |

***Minnesota Students Reporting They First Smoked a Cigar or Used Snuff at Age 13 or Younger, by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 5,019        | 8%       |
|                       | Female                             | 2,046        | 3%       |
|                       | Total                              | 7,065        | 6%       |
| <b>Grade</b>          | 6th                                | 1,374        | 3%       |
|                       | 9th                                | 3,416        | 8%       |
|                       | 12th                               | 2,275        | 7%       |
| <b>Race/Ethnicity</b> | White                              | 4,692        | 5%       |
|                       | African-American, African or Black | 417          | 7%       |
|                       | American Indian                    | 218          | 12%      |
|                       | Asian American/Pacific Islander    | 232          | 4%       |
|                       | Hispanic/Latino                    | 512          | 12%      |
| <b>Region</b>         | Metro                              | 3,445        | 5%       |
|                       | Non-Metro                          | 3,620        | 7%       |

**Average Age Minnesota Students First Smoked a Cigar or Used Snuff by Gender and Grade, 2010**

|                       |                        | Male  | Female |
|-----------------------|------------------------|-------|--------|
| <b>7-County Metro</b> | 6 <sup>th</sup> Grade  | 407   | 518    |
|                       | 9 <sup>th</sup> Grade  | 1,174 | 1,201  |
|                       | 12 <sup>th</sup> Grade | 907   | 907    |
| <b>Non-metro</b>      | 6 <sup>th</sup> Grade  | 518   | 205    |
|                       | 9 <sup>th</sup> Grade  | 1,201 | 519    |
|                       | 12 <sup>th</sup> Grade | 907   | 270    |
| <b>Total</b>          | 6 <sup>th</sup> Grade  | 925   | 449    |
|                       | 9 <sup>th</sup> Grade  | 2,375 | 1,041  |
|                       | 12 <sup>th</sup> Grade | 1,719 | 556    |

Note: Age category options on the survey include "10 or younger" and "17 or older". To calculate an average, these categories were set at 10 and 17 respectively. Average age for 6<sup>th</sup> graders will be lower than for 9<sup>th</sup> graders, and 9<sup>th</sup> lower than 12<sup>th</sup>, reflecting the ages of students in each grade. Average age was calculated only for those students who reported ever using chewing tobacco or smoking a cigar.

## Mothers Reporting Smoking During Pregnancy

**About the Indicator:** Smoking can increase a woman's risk of having a low-birthweight baby. Low-birthweight babies face an increased risk of serious health problems during the newborn period, and chronic lifelong disabilities. Smoking during pregnancy is also associated with a number of pregnancy complications.

According to Smoking-Attributable Mortality, Morbidity, and Economic Costs (SAMMEC), Minnesota's maternal smoking prevalence was 9.8% in 2004 as compared to the nation's 10.2%.

**Data Source(s):** Minnesota Health Statistics Annual Summary, Minnesota Department of Health

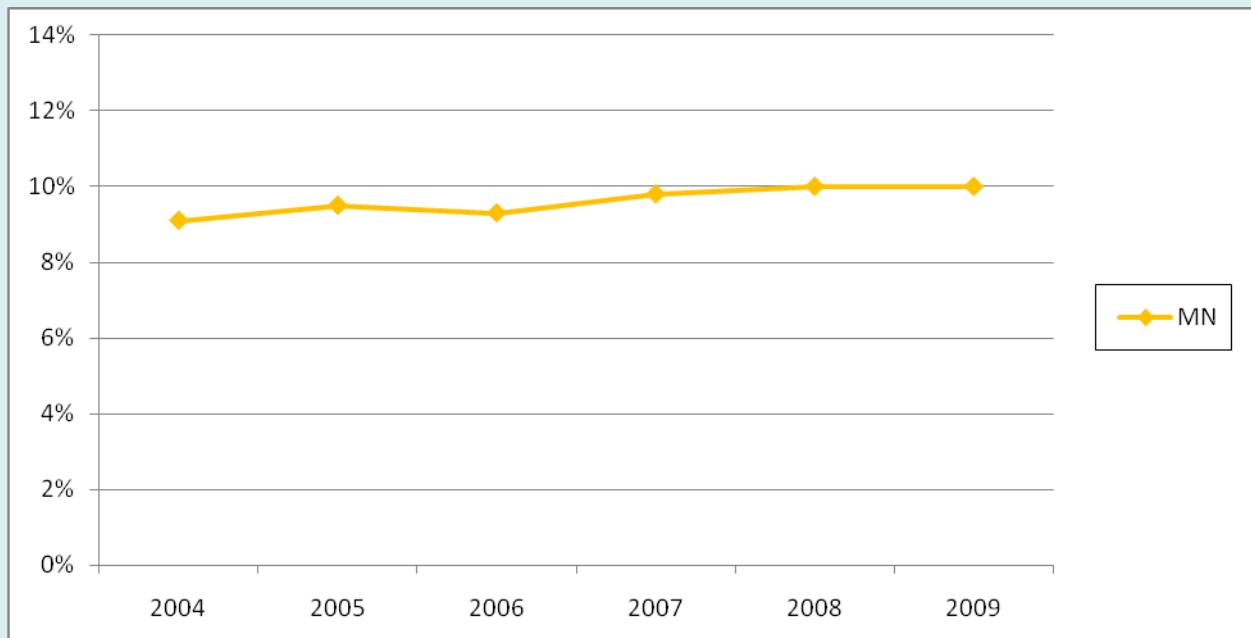
### Section Summary:

- Over the six-year period from 2004 to 2009, an average of 9.6% of mothers reported smoking during pregnancy.

**Substance:** Tobacco

**Data Source:** MDH

***Mothers Reporting Smoking during Pregnancy***



|         | <b>2004</b> | <b>2005</b> | <b>2006</b> | <b>2007</b> | <b>2008</b> | <b>2009</b> |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|
| Number  | 6,849       | 6,681       | 6,810       | 7,138       | 7,238       | 6,991       |
| Percent | 9.1%        | 9.5%        | 9.3%        | 9.8%        | 10.0%       | 10.0%       |

## 6. Tobacco Use in Minnesota: Consequences

### Tobacco-Related Mortality

**About the Indicator:** Smoking is a risk factor for many causes of death in Minnesota.

Lung cancer is the most common cause of cancer deaths, for both men and women. The risk of lung cancer increases in proportion to the duration of smoking and the numbers of cigarettes smoked.

In addition to lung cancer rates, the disease impact of smoking can be assessed using Smoking Attributable Mortality figures calculated by the Centers for Disease Control and Prevention (CDC).

**Data Source(s):** Minnesota Department of Health, CDC Wonder, and SAMMEC

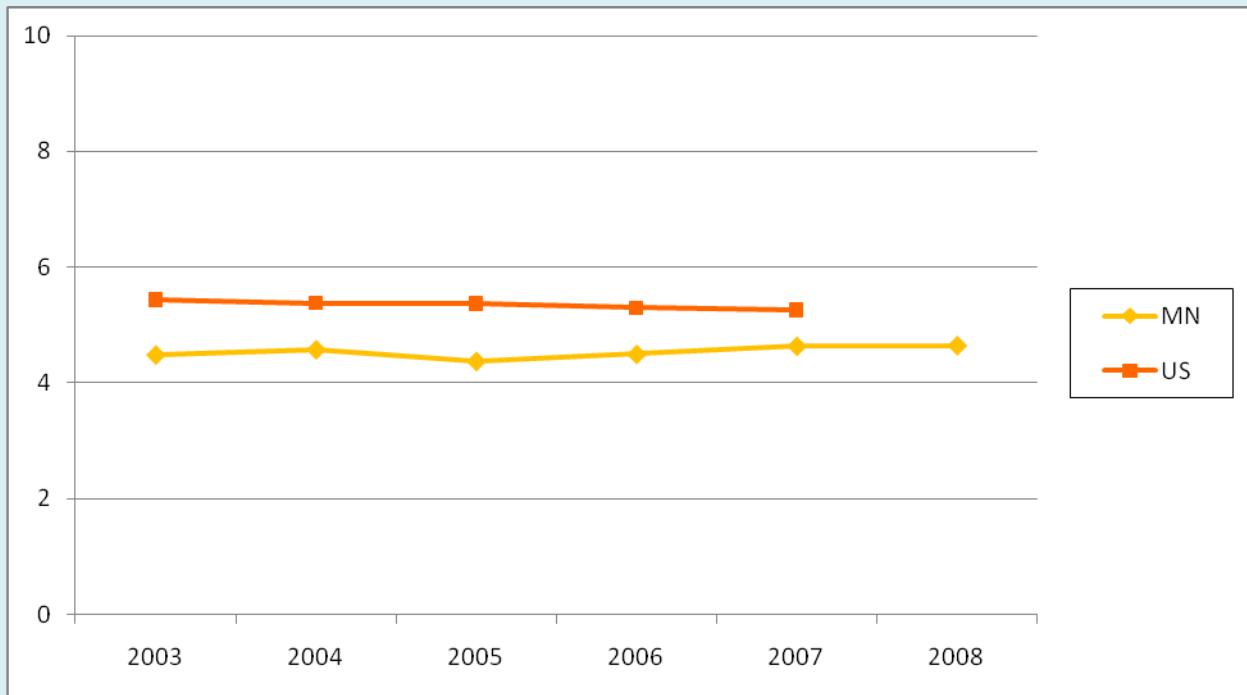
#### **Section Summary:**

- Lung, bronchus and trachea cancer death rates in Minnesota increased slightly, from 4.38 per 10,000 population in 2005 to 4.65 per 10,000 population in 2008. Meanwhile, US rates declined from 5.37 per 10,000 population in 2005 to 5.26 per 10,000 population in 2007 (national data are not yet available for 2008).
- In 2004, the smoking-attributable mortality (SAM) rate for Minnesota was 201.2 per 100,000 population. This includes deaths from cancers, cardiovascular diseases and respiratory diseases.

**Substance:** Tobacco

**Data Source:** Minnesota Department of Health and CDC Wonder

***Deaths from Lung, Bronchus, and Trachea Cancer Per 10,000 Population***



| Minnesota                                      | 2003    | 2004    | 2005    | 2006    | 2007    | 2008  |
|--|---------|---------|---------|---------|---------|-------|
| Deaths from lung, bronchus, and trachea cancer | 2,285   | 2,356   | 2,281   | 2,356   | 2,415   | 2,426 |
| Rate per 10,000 population                     | 4.49    | 4.58    | 4.38    | 4.50    | 4.64    | 4.65  |
| United States                                  | 2003    | 2004    | 2005    | 2006    | 2007    | 2008  |
| Deaths from lung, bronchus, and trachea        | 158,086 | 158,091 | 159,292 | 158,664 | 158,760 | N/A   |
| Rate per 10,000 population                     | 5.44    | 5.38    | 5.37    | 5.30    | 5.26    | N/A   |
|  | 2003    | 2004    | 2005    | 2006    | 2007    | 2008  |
| MN:US**  | 0.83    | 0.85    | 0.82    | 0.85    | 0.88    | N/A   |

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates  
N/A = Not available yet for 2008

**Substance:** Tobacco

**Data Source:** SAMMEC

***Age-Adjusted Smoking-Attributable Mortality (SAM) Rate per 100,000***

SAM Rate per 100,000 (2004)<sup>1,2</sup>

| Disease Category               | Minnesota    |              |              | United States |              |              |
|--------------------------------|--------------|--------------|--------------|---------------|--------------|--------------|
|                                | Male         | Female       | Total        | Male          | Female       | Total        |
| <b>Malignant Neoplasms</b>     |              |              |              |               |              |              |
| Lip, Oral Cavity, Pharynx      | 4.3          | 1.3          | 2.6          | 5.5           | 1.3          | 3.2          |
| Esophagus                      | 11.8         | 1.4          | 5.9          | 10.6          | 1.9          | 5.7          |
| Stomach                        | 2.8          | 0.5          | 1.5          | 2.8           | 0.6          | 1.5          |
| Pancreas                       | 4.6          | 3.2          | 3.9          | 4.6           | 4.2          | 4.4          |
| Larynx                         | 2.6          | 0.4          | 1.3          | 3.6           | 0.6          | 1.9          |
| Trachea, Lung, Bronchus        | 101.3        | 49.8         | 71.6         | 119.0         | 56.0         | 82.8         |
| Cervix Uteri                   | 0.0          | 0.3          | 0.1          | 0.0           | 0.5          | 0.3          |
| Kidney and Renal Pelvis        | 4.4          | 0.1          | 2.0          | 4.2           | 0.2          | 1.9          |
| Urinary Bladder                | 6.6          | 0.9          | 3.2          | 6.6           | 1.2          | 3.4          |
| Acute Myeloid Leukemia         | 1.7          | 0.4          | 0.9          | 1.3           | 0.4          | 0.8          |
| Sub-total                      | 140.1        | 58.3         | 93.0         | 158.2         | 66.9         | 105.9        |
| <b>Cardiovascular Diseases</b> |              |              |              |               |              |              |
| Ischemic Heart Disease         | 47.3         | 13.2         | 28.0         | 69.5          | 28.8         | 46.5         |
| Other Heart Disease            | 18.4         | 6.2          | 10.8         | 19.9          | 8.2          | 12.9         |
| Cerebrovascular Disease        | 8.9          | 5.8          | 7.0          | 10.8          | 8.3          | 9.3          |
| Atherosclerosis                | 1.2          | 0.1          | 0.5          | 1.9           | 0.5          | 1.0          |
| Aortic Aneurysm                | 9.2          | 3.7          | 5.9          | 8.0           | 2.9          | 5.0          |
| Other Arterial Disease         | 0.6          | 0.7          | 0.7          | 0.7           | 0.8          | 0.8          |
| Sub-total                      | 85.6         | 29.7         | 52.9         | 110.8         | 49.5         | 75.5         |
| <b>Respiratory Diseases</b>    |              |              |              |               |              |              |
| Pneumonia, Influenza           | 6.9          | 2.2          | 3.9          | 9.5           | 4.2          | 6.2          |
| Bronchitis, Emphysema          | 6.6          | 3.6          | 4.8          | 10.8          | 6.4          | 8.1          |
| Chronic Airway Obstruction     | 64.7         | 35.3         | 46.6         | 66.0          | 43.6         | 52.1         |
| Sub-total                      | 78.2         | 41.1         | 55.3         | 86.3          | 54.2         | 66.4         |
| <b>Total</b>                   | <b>303.9</b> | <b>129.1</b> | <b>201.2</b> | <b>355.3</b>  | <b>170.6</b> | <b>247.8</b> |

<sup>1</sup> Among adults aged 35 years and older.

<sup>2</sup> Does not include burn or second hand smoke deaths.

***Maternal and Child Health Smoking-Attributable Health Outcomes, 2004***

|   | Minnesota |        | United State |        |
|---|-----------|--------|--------------|--------|
| Maternal Smoking Prevalence                                     | 9.8       |        | 10.2         |        |
|   | Male      | Female | Male         | Female |
| <b>Smoking-Attributable Fraction (SAF)</b>                      |           |        |              |        |
| Short Gestation/Low Birth Weight                                | 7.52%     | 7.52%  | 7.81%        | 7.81%  |
| Sudden Infant Death Syndrome                                    | 11.22%    | 11.22% | 11.63%       | 11.63% |
| Respiratory Distress (Syndrome)—newborn                         | 2.86%     | 2.86%  | 2.97%        | 2.97%  |
| Other Respiratory Conditions—perinatal                          | 3.86%     | 3.86%  | 4.01%        | 4.01%  |
| <b>Smoking-Attributable Mortality (SAM)</b>                     |           |        |              |        |
| Short Gestation/Low Birth Weight                                | 1         | 1      | 206          | 156    |
| Sudden Infant Death Syndrome                                    | 2         | 1      | 154          | 107    |
| Respiratory Distress (Syndrome)—newborn                         | 0         | 0      | 15           | 11     |
| Other Respiratory Conditions—perinatal                          | 0         | 0      | 28           | 20     |
| <b>Smoking-Attributable Years of Potential Life Lost (YPLL)</b> |           |        |              |        |
| Short Gestation/Low Birth Weight                                | 75        | 80     | 15,491       | 12,542 |
| Sudden Infant Death Syndrome                                    | 150       | 80     | 11,581       | 8,603  |
| Respiratory Distress (Syndrome)—newborn                         | 0         | 0      | 1,128        | 884    |
| Other Respiratory Conditions—perinatal                          | 0         | 0      | 2,106        | 1,608  |

Note: Smoking status is obtained through maternal self reports, and the prevalence of maternal smoking may be substantially understated.

## School Disciplinary Incidents Involving Tobacco

**About the Indicator:** School disciplinary incidents among kindergarten through twelfth grade students involving tobacco were obtained by school district, then aggregated to the county level. Percentages are found by totaling each county's tobacco-related incidents and dividing them by the total amount of disciplinary incidents for that county.

Each year districts report all disciplinary incidents that result in an out-of-school suspension/removal of one day or longer and expulsions/exclusions.

**Data Source(s):** Safe and Healthy Minnesota Students (SAHMS) Portal, Minnesota Department of Education

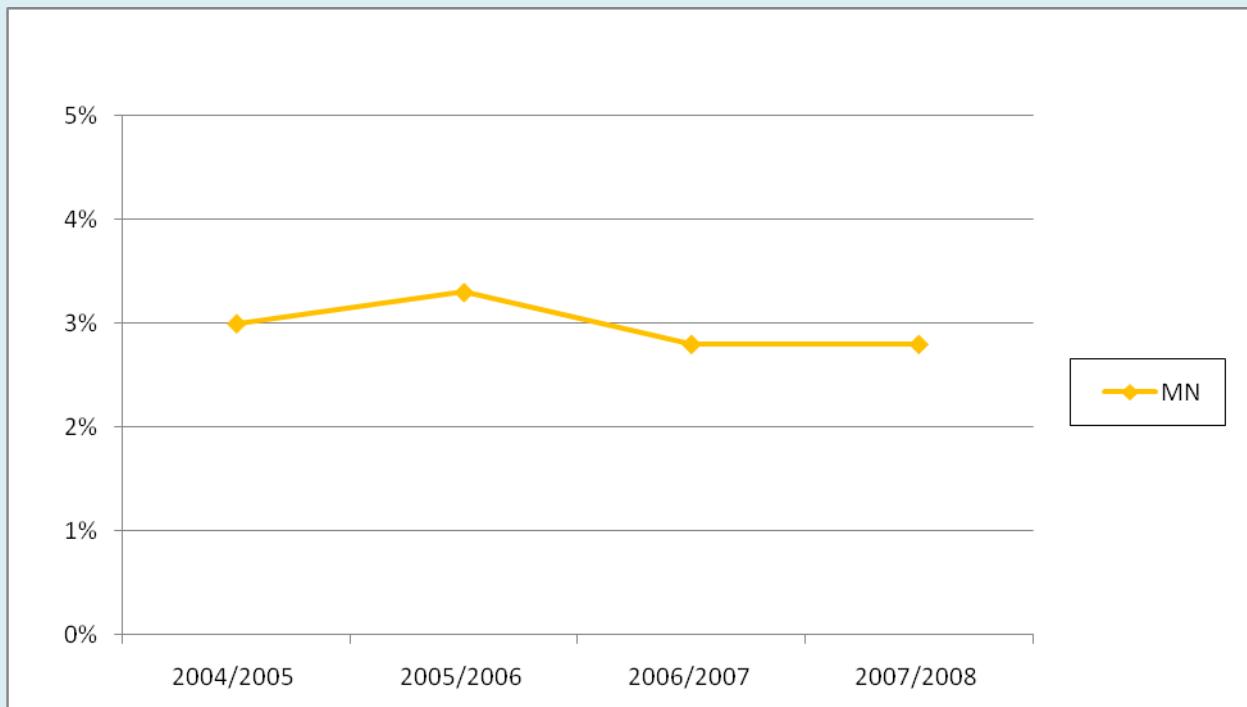
### Section Summary:

- From 2004 to 2008, the percent of all school disciplinary incidents in Minnesota involving tobacco hovered around three percent.

**Substance:** Tobacco

**Data Source:** SAHMS

***Tobacco-Related School Disciplinary Incidents, Number and Percent of All Disciplinary Incidents***



|                | 2004/2005<br>School Year | 2005/2006<br>School Year | 2006/2007<br>School Year | 2007/2008<br>School Year |
|----------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Number</b>  | 1,648                    | 2,031                    | 1,959                    | 1,825                    |
| <b>Percent</b> | 3.0%                     | 3.3%                     | 2.8%                     | 2.8%                     |

Note: Percent here represents that percent of all school disciplinary incidents that involved tobacco, and not the percent of all students. For example, during the 2007/2008 school year, 1.4% of all disciplinary incidents involved tobacco. It does not mean that 1.4% of all students during the school year were disciplined for use or possession of tobacco.

## 7. Tobacco Use in Minnesota: Risk & Protective Factors

### Tobacco Retailer Noncompliance

**About the Indicator:** The Synar Amendment requires states to have laws prohibiting the sale of tobacco products to those younger than 18 and to conduct annual random, unannounced inspections of a valid sample of tobacco retailers to ensure compliance. Statistics presented are the retailer violation rates (RVR) by Federal Fiscal Year (FFY).

**Data Source(s):** Center for Substance Abuse Prevention (CSAP)

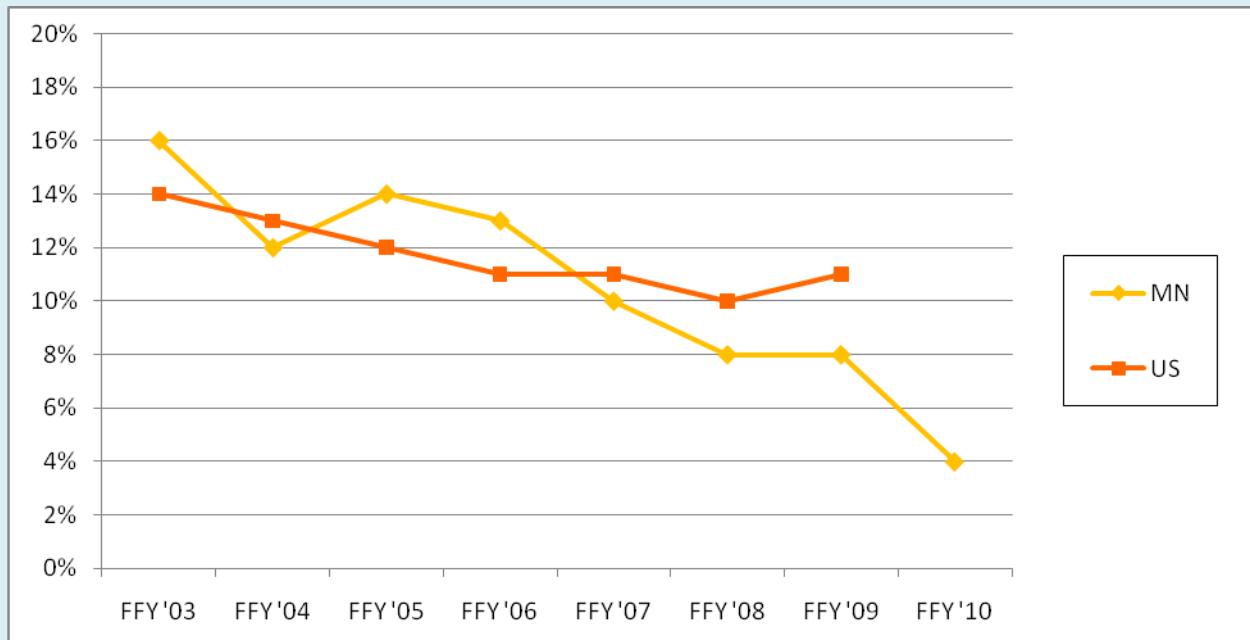
#### **Section Summary:**

- Minnesota retailer violation rates have steadily declined, from 16% in Federal Fiscal Year 2003 to 4% in Federal Fiscal Year 2010.
- Minnesota's retailer violation rates have been lower than the national average since Federal Fiscal Year 2007.

**Substance:** Tobacco

**Data Source:** SYNAR

***SYNAR Tobacco Retailer Violation Rates (RVR)***



|                      | FFY<br>'03 | FFY<br>'04 | FFY<br>'05 | FFY<br>'06 | FFY<br>'07 | FFY<br>'08 | FFY<br>'09 | FFY<br>'10 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Minnesota</b>     | 16         | 12         | 14         | 13         | 10         | 8          | 8          | 4          |
| <b>United States</b> | 14         | 13         | 12         | 11         | 11         | 10         | 11         | N/A        |
| <b>MN:US</b>         | 1.14       | 0.92       | 1.17       | 1.18       | 0.91       | 0.80       | 0.73       | N/A        |

Note: RVR are reported in Federal Fiscal Years. National RVRs were calculated by weighting each State's reported DVR by that State's population. (N/A means that data hadn't been put on the SYNAR website for US)

## Access

**About the Indicator:** Beginning in 2007, ninth and twelfth graders who reported tobacco use in the past 30 days were asked how they obtained the tobacco. Students were asked to select all responses that applied. Responses indicating that they purchased tobacco from gas stations, convenience stores, bars or restaurants, grocery, discount, or drug stores, at places like bowling alleys, video arcades, or pool halls, from vending machines, or on the internet were collapsed into the indicator "youth bought tobacco." Responses indicating that they got tobacco from their friends, their parents, other family members, getting someone else to buy it for them, or at parties were collapsed into the indicator "youth social access to tobacco." Responses indicating that they took tobacco from their home, a friend's home, or from stores were collapsed into the indicator "youth took tobacco."

**Data Source(s):** Minnesota Student Survey (MSS)

### Section Summary:

- Students are most likely to report social access to tobacco (63%), getting it from someone or somewhere, and least likely to report taking tobacco (17%).
- Ninety-four percent of 9<sup>th</sup> grade Minnesota students reported social access to tobacco in 2010.
- Females were slightly more likely than males to report taking tobacco from someone or somewhere in 2010.
- In 2010, early one-quarter of Minnesota 9<sup>th</sup> graders who reporting past 30 day smoking bought the tobacco.

**Substance:** Tobacco

**Data Source:** MSS

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Bought the Tobacco from Someone or Somewhere, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 5,507 | 59% |
|                       | Female                             | 2,651 | 44% |
|                       |                                    |       |     |
| <b>Grade</b>          | 9th                                | 1,041 | 23% |
|                       | 12th                               | 7,117 | 75% |
|                       |                                    |       |     |
| <b>Race/Ethnicity</b> | White                              | 6,650 | 57% |
|                       | African-American, African or Black | 241   | 47% |
|                       | American Indian                    | 147   | 40% |
|                       | Asian American/Pacific Islander    | 206   | 51% |
|                       | Hispanic/Latino                    | 233   | 38% |
|                       |                                    |       |     |
| <b>Region</b>         | Metro                              | 3,902 | 54% |
|                       | Non-Metro                          | 4,256 | 53% |

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Bought the Tobacco from Someone or Somewhere, by Gender and Grade, 2010***

|              |                 | Male  |     | Female |     |
|--------------|-----------------|-------|-----|--------|-----|
|              |                 | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9 <sup>th</sup> | 709   | 28% | 332    | 16% |
|              | 12th            | 4,798 | 80% | 2,319  | 66% |

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Bought the Tobacco from Someone or Somewhere, by Race/Ethnicity and Grade, 2010***

| Race/Ethnicity                     | 9th grade |     | 12th grade |     |
|------------------------------------|-----------|-----|------------|-----|
|                                    | N (#)     | %   | N (#)      | %   |
| White                              | 606       | 19% | 6,044      | 75% |
| African-American, African or Black | 81        | 43% | 160        | 77% |
| American Indian                    | 42        | 30% | 105        | 85% |
| Asian American/Pacific Islander    | 50        | 37% | 156        | 71% |
| Hispanic/Latino                    | 77        | 31% | 156        | 67% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

***Race-specific Data on Youth Buying Tobacco***

| <b>White students reporting any tobacco use in the past 30 days, who bought the tobacco from someone or somewhere, by gender and grade, 2010</b>                              |                 |             |     |               |     |
|---|-----------------|-------------|-----|---------------|-----|
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9 <sup>th</sup> | 416         | 24% | 190           | 14% |
|   | 12th            | 4,080       | 80% | 1,964         | 66% |
| <b>African-American, African or Black students reporting any tobacco use in the past 30 days, who bought the tobacco from someone or somewhere, by gender and grade, 2010</b> |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9 <sup>th</sup> | 60          | 48% | 21            | 34% |
|   | 12th            | 121         | 85% | 39            | 61% |
| <b>American Indian students reporting any tobacco use in the past 30 days, who bought the tobacco from someone or somewhere, by gender and grade, 2010</b>                    |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9 <sup>th</sup> | 24          | 30% | 18            | 31% |
|   | 12th            | 64          | 93% | 41            | 76% |
| <b>Asian American/Pacific Islander students reporting any tobacco use in the past 30 days, who bought the tobacco from someone or somewhere, by gender and grade, 2010</b>    |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9 <sup>th</sup> | 34          | 44% | 16            | 28% |
|   | 12th            | 109         | 77% | 47            | 61% |
| <b>Hispanic/Latino students reporting any tobacco use in the past 30 days, who bought the tobacco from someone or somewhere, by gender and grade, 2010</b>                    |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 9 <sup>th</sup> | 54          | 37% | 23            | 22% |
|   | 12th            | 111         | 71% | 45            | 59% |

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Bought the Tobacco from Someone or Somewhere, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |     | <b>Non-Metro</b> |     |
|------------------------------------|--------------|-----|------------------|-----|
|                                    | N (#)        | %   | N (#)            | %   |
| White                              | 2,984        | 58% | 3,666            | 56% |
| African-American, African or Black | 181          | 45% | 60               | 54% |
| American Indian                    | 39           | 37% | 108              | 42% |
| Asian American/Pacific Islander    | 162          | 50% | 44               | 54% |
| Hispanic/Latino                    | 145          | 39% | 88               | 36% |

**Substance:** Tobacco

**Data Source:** MSS

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Got the Tobacco from Someone or Somewhere, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 5,477 | 59% |
|                       | Female                             | 4,133 | 69% |
| <b>Grade</b>          | 9th                                | 4,274 | 94% |
|                       | 12th                               | 5,336 | 56% |
| <b>Race/Ethnicity</b> | White                              | 7,379 | 63% |
|                       | African-American, African or Black | 300   | 58% |
|                       | American Indian                    | 204   | 56% |
|                       | Asian American/Pacific Islander    | 270   | 67% |
|                       | Hispanic/Latino                    | 375   | 61% |
| <b>Region</b>         | Metro                              | 4,629 | 64% |
|                       | Non-Metro                          | 4,981 | 62% |

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Got the Tobacco from Someone or Somewhere, by Gender and Grade, 2010***

|              |                 | Male  |     | Female |     |
|--------------|-----------------|-------|-----|--------|-----|
|              |                 | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9 <sup>th</sup> | 2,357 | 93% | 1,917  | 95% |
|              | 12th            | 3,120 | 52% | 2,216  | 63% |

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Got the Tobacco from Someone or Somewhere, by Gender and Grade, 2010***

|                       |                                    | 9th grade |     | 12th grade |     |
|-----------------------|------------------------------------|-----------|-----|------------|-----|
|                       |                                    | N (#)     | %   | N (#)      | %   |
| <b>Race/Ethnicity</b> | White                              | 2,952     | 94% | 4,427      | 55% |
|                       | African-American, African or Black | 162       | 87% | 138        | 67% |
|                       | American Indian                    | 134       | 96% | 70         | 57% |
|                       | Asian American/Pacific Islander    | 129       | 95% | 141        | 64% |
|                       | Hispanic/Latino                    | 233       | 93% | 142        | 61% |

\*This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

***Race-specific Data on Youth Social Access to Tobacco***

| <b>White students reporting any tobacco use in the past 30 days, who got the tobacco from someone or somewhere, by gender and grade, 2010</b>                              |  |              |          |               |          |
|--|--|--------------|----------|---------------|----------|
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>  |  | 1,637        | 93%      | 1,315         | 96%      |
| 12th   |  | 2,574        | 51%      | 1,853         | 62%      |
| <b>African-American, African or Black students reporting any tobacco use in the past 30 days, who got the tobacco from someone or somewhere, by gender and grade, 2010</b> |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9 <sup>th</sup>  |  | 106          | 84%      | 56            | 92%      |
| 12th   |  | 88           | 62%      | 50            | 78%      |
| <b>American Indian students reporting any tobacco use in the past 30 days, who got the tobacco from someone or somewhere, by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9th  |  | 78           | 98%      | 56            | 95%      |
| 12th   |  | 35           | 51%      | 35            | 65%      |
| <b>Asian American/Pacific Islander students reporting any tobacco use in the past 30 days, who got the tobacco from someone or somewhere, by gender and grade, 2010</b>    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9th  |  | 72           | 92%      | 57            | 98%      |
| 12th   |  | 92           | 65%      | 49            | 64%      |
| <b>Hispanic/Latino students reporting any tobacco use in the past 30 days, who got the tobacco from someone or somewhere, by gender and grade, 2010</b>                    |  |              |          |               |          |
| <b>Grade</b>   |  | <b>Male</b>  |          | <b>Female</b> |          |
|  |  | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| 9th  |  | 138          | 95%      | 95            | 90%      |
| 12th   |  | 95           | 61%      | 47            | 62%      |

***Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Got the Tobacco from Someone or Somewhere, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 3,323        | 64%      | 4,056            | 62%      |
| African-American, African or Black | 228          | 57%      | 72               | 65%      |
| American Indian                    | 60           | 57%      | 144              | 56%      |
| Asian American/Pacific Islander    | 219          | 68%      | 51               | 62%      |
| Hispanic/Latino                    | 226          | 60%      | 149              | 62%      |

**Substance:** Tobacco

**Data Source:** MSS

***Youth Took Tobacco\*: Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Took the Tobacco from Someone or Somewhere, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 1,546 | 17% |
|                       | Female                             | 1,062 | 18% |
| <b>Grade</b>          | 9th                                | 1,585 | 35% |
|                       | 12th                               | 1,023 | 11% |
| <b>Race/Ethnicity</b> | White                              | 1,742 | 15% |
|                       | African-American, African or Black | 148   | 29% |
|                       | American Indian                    | 87    | 24% |
|                       | Asian American/Pacific Islander    | 100   | 25% |
|                       | Hispanic/Latino                    | 138   | 22% |
| <b>Region</b>         | Metro                              | 1,274 | 17% |
|                       | Non-Metro                          | 1,334 | 17% |

***Youth Took Tobacco\*: Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Took the Tobacco from Someone or Somewhere, by Gender and Grade, 2010***

|              |                 | Male  |     | Female |     |
|--------------|-----------------|-------|-----|--------|-----|
|              |                 | N (#) | %   | N (#)  | %   |
| <b>Grade</b> | 9 <sup>th</sup> | 866   | 34% | 719    | 36% |
|              | 12th            | 680   | 11% | 343    | 10% |

***Youth Took Tobacco\*: Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Took the Tobacco from Someone or Somewhere, by Gender and Grade, 2010***

|                                    |  | 9th grade |     | 12th grade |     |
|------------------------------------|--|-----------|-----|------------|-----|
|                                    |  | N (#)     | %   | N (#)      | %   |
| <b>Race/Ethnicity</b>              |  |           |     |            |     |
| White                              |  | 1,018     | 33% | 724        | 9%  |
| African-American, African or Black |  | 85        | 45% | 63         | 30% |
| American Indian                    |  | 56        | 40% | 31         | 25% |
| Asian American/Pacific Islander    |  | 59        | 43% | 41         | 19% |
| Hispanic/Latino                    |  | 95        | 38% | 43         | 18% |

\* This question was only asked of 9<sup>th</sup> and 12<sup>th</sup> graders.

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Race-Specific Data on Youth Taking Tobacco**

| White students reporting any tobacco use in the past 30 days, who took the tobacco from someone or somewhere, by gender and grade, 2010                              |  |       |     |        |     |
|--|--|-------|-----|--------|-----|
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>  |  | 539   | 31% | 479    | 35% |
| 12th   |  | 474   | 9%  | 250    | 8%  |
| African-American, African or Black students reporting any tobacco use in the past 30 days, who took the tobacco from someone or somewhere, by gender and grade, 2010 |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9th  |  | 57    | 45% | 28     | 46% |
| 12th   |  | 50    | 35% | 13     | 20% |
| American Indian students reporting any tobacco use in the past 30 days, who took the tobacco from someone or somewhere, by gender and grade, 2010                    |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9 <sup>th</sup>  |  | 34    | 43% | 22     | 37% |
| 12th   |  | 19    | 28% | 12     | 22% |
| Asian American/Pacific Islander students reporting any tobacco use in the past 30 days, who took the tobacco from someone or somewhere, by gender and grade, 2010    |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9th  |  | 41    | 53% | 18     | 31% |
| 12th   |  | 35    | 25% | 6      | 8%  |
| Hispanic/Latino students reporting any tobacco use in the past 30 days, who took the tobacco from someone or somewhere, by gender and grade, 2010                    |  |       |     |        |     |
| Grade  |  | Male  |     | Female |     |
|  |  | N (#) | %   | N (#)  | %   |
| 9th  |  | 51    | 35% | 44     | 42% |
| 12th   |  | 28    | 18% | 15     | 20% |

**Youth Took Tobacco: Minnesota Students Reporting Any Tobacco Use in the Past 30 Days, Who Took the Tobacco from Someone or Somewhere, by Region and Race/Ethnicity, 2010**

| Race/Ethnicity                     | Metro |     | Non-Metro |     |
|------------------------------------|-------|-----|-----------|-----|
|                                    | N (#) | %   | N (#)     | %   |
| White                              | 766   | 15% | 976       | 15% |
| African-American, African or Black | 110   | 27% | 38        | 34% |
| American Indian                    | 29    | 28% | 58        | 22% |
| Asian American/Pacific Islander    | 75    | 23% | 25        | 30% |
| Hispanic/Latino                    | 87    | 23% | 51        | 21% |

## Perception of Harm

**About the Indicator:** Beginning in 2007, students were asked how much they thought people risked harming themselves physically or in other ways by smoking one or more packs of cigarettes per day. The statistics presented here show the number and percent of students responding with either “great risk” or “moderate risk” of harm. The other two selection options on the survey were “slight risk” and “no risk.”

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Perception of harm of smoking one or more packs of cigarettes per day was higher among female students than among male students in 2010.
- In 2010, perception of harm was slightly greater among 9<sup>th</sup> graders than among 6<sup>th</sup> or 12<sup>th</sup> graders.

**Substance:** Tobacco

**Data Source:** MSS

***Students Reporting that they Believe People put Themselves at Great or Moderate Risk of Harm by Smoking One or Two Packs of Cigarettes per Day, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 50,798       | 88%      |
|                       | Female                             | 55,153       | 91%      |
| <b>Grade</b>          | 6th                                | 37,851       | 88%      |
|                       | 9th                                | 38,129       | 91%      |
|                       | 12th                               | 29,971       | 90%      |
| <b>Race/Ethnicity</b> | White                              | 80,182       | 91%      |
|                       | African-American, African or Black | 4,544        | 81%      |
|                       | American Indian                    | 1,314        | 77%      |
|                       | Asian American/Pacific Islander    | 5,166        | 85%      |
|                       | Hispanic/Latino                    | 3,870        | 81%      |
| <b>Region</b>         | Metro                              | 56,856       | 89%      |
|                       | Non-Metro                          | 49,095       | 89%      |

***Students Reporting that they Believe People put Themselves at Great or Moderate Risk of Harm by Smoking One or Two Packs of Cigarettes per Day, by Gender and Grade, 2010***

|              |                 | <b>Male</b>  |          | <b>Female</b> |          |
|--------------|-----------------|--------------|----------|---------------|----------|
|              |                 | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>  | <b>%</b> |
| <b>Grade</b> | 6 <sup>th</sup> | 18,672       | 87%      | 19,179        | 88%      |
|              | 9th             | 18,054       | 89%      | 20,075        | 92%      |
|              | 12th            | 14,072       | 87%      | 15,899        | 93%      |

***Students Reporting that they Believe People put Themselves at Great or Moderate Risk of Harm by Smoking One or Two Packs of Cigarettes per Day, by Race/Ethnicity and Grade, 2010***

| <b>Race/Ethnicity</b>              | <b>6<sup>th</sup> Grade</b> |          | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|-----------------------------|----------|------------------|----------|-------------------|----------|
|                                    | <b>N (#)</b>                | <b>%</b> | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| White                              | 26,751                      | 91%      | 29,072           | 92%      | 24,359            | 91%      |
| African-American, African or Black | 1,816                       | 77%      | 1,605            | 83%      | 1,123             | 84%      |
| American Indian                    | 668                         | 76%      | 421              | 78%      | 225               | 80%      |
| Asian American/Pacific Islander    | 1,744                       | 80%      | 1,923            | 88%      | 1,499             | 88%      |
| Hispanic/Latino                    | 1,603                       | 77%      | 1,447            | 83%      | 820               | 85%      |

***Race-Specific Data on Youth Perception of Tobacco Harm***

| <b>White students reporting that they believe people put themselves at great or moderate risk of harm by smoking one or two packs of cigarettes per day, by gender and grade, 2010</b>                              |                 |             |     |               |     |
|---|-----------------|-------------|-----|---------------|-----|
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6 <sup>th</sup> | 13,238      | 90% | 13,513        | 92% |
|   | 9th             | 13,719      | 91% | 15,353        | 94% |
|   | 12th            | 11,410      | 88% | 12,949        | 93% |
| <b>African-American, African or Black students reporting that they believe people put themselves at great or moderate risk of harm by smoking one or two packs of cigarettes per day, by gender and grade, 2010</b> |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6 <sup>th</sup> | 926         | 77% | 890           | 77% |
|   | 9th             | 807         | 80% | 798           | 86% |
|   | 12th            | 528         | 80% | 595           | 87% |
| <b>American Indian students reporting that they believe people put themselves at great or moderate risk of harm by smoking one or two packs of cigarettes per day, by gender and grade, 2010</b>                    |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6 <sup>th</sup> | 345         | 72% | 323           | 80% |
|   | 9th             | 235         | 77% | 186           | 79% |
|   | 12th            | 113         | 76% | 112           | 85% |
| <b>Asian American/Pacific Islander students reporting that they believe people put themselves at great or moderate risk of harm by smoking one or two packs of cigarettes per day, by gender and grade, 2010</b>    |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6 <sup>th</sup> | 884         | 81% | 860           | 80% |
|   | 9th             | 872         | 85% | 1,051         | 90% |
|   | 12th            | 708         | 87% | 791           | 90% |
| <b>Hispanic/Latino students reporting that they believe people put themselves at great or moderate risk of harm by smoking one or two packs of cigarettes per day, by gender and grade, 2010</b>                    |                 |             |     |               |     |
|   |                 | <b>Male</b> |     | <b>Female</b> |     |
|   |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6 <sup>th</sup> | 797         | 77% | 806           | 77% |
|   | 9th             | 716         | 81% | 731           | 86% |
|   | 12th            | 381         | 82% | 439           | 87% |

***Students Reporting that they Believe People put Themselves at Great or Moderate Risk of Harm by Smoking One or Two Packs of Cigarettes per Day, by Region and Race/Ethnicity, 2010***

|                |                                    | Metro  |     | Non-Metro |     |
|----------------|------------------------------------|--------|-----|-----------|-----|
| Race/Ethnicity |                                    | N (#)  | %   | N (#)     | %   |
|                | White                              | 39,363 | 92% | 40,819    | 91% |
|                | African-American, African or Black | 3,837  | 81% | 707       | 81% |
|                | American Indian                    | 481    | 76% | 833       | 78% |
|                | Asian American/Pacific Islander    | 4,354  | 85% | 812       | 86% |
|                | Hispanic/Latino                    | 2,447  | 82% | 1,423     | 79% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Perception of Disapproval

**About the Indicator:** In 2010, students were asked how they thought their parents or guardians would feel if they smoked cigarettes. Students were also asked how they thought their parents or guardians would feel if they smoked cigarettes. The statistics presented here show the number and percent of students responding that their close friends would either “greatly disapprove” or “disapprove.” The other two selection options on the survey were “would not care at all” and “would approve.”

In the previous Minnesota Profile the students were asked how their close friends would feel about the same two questions, but if they smoked one or two packs of cigarettes per day. If you would like to see those data, they are available on the SUMN.org website.

**Data Source(s):** Minnesota Student Survey (MSS)

### Section Summary:

- In 2010, females were slightly more likely than males to believe their parents or guardians would disapprove of them smoking cigarettes.
- Students’ perceptions of parents’ or guardians’ disapproval decreased with grade level in 2010.

**Substance:** Tobacco

**Data Source:** MSS

***Students Reporting that they Believe their Parents or Guardians Would Disapprove or Greatly Disapprove if they Smoked Cigarettes, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                |                                    | N (#)  | %   |
|----------------|------------------------------------|--------|-----|
| Gender         | Male                               | 55,367 | 95% |
|                | Female                             | 58,826 | 96% |
| Grade          | 6th                                | 42,536 | 98% |
|                | 9th                                | 41,145 | 96% |
|                | 12th                               | 30,512 | 91% |
| Race/Ethnicity | White                              | 84,899 | 96% |
|                | African-American, African or Black | 5,333  | 93% |
|                | American Indian                    | 1,501  | 87% |
|                | Asian American/Pacific Islander    | 5,846  | 95% |
|                | Hispanic/Latino                    | 4,580  | 94% |
| Region         | Metro                              | 61,644 | 96% |
|                | Non-Metro                          | 52,549 | 95% |

***Students Reporting that they Believe their Parents or Guardians Would Disapprove or Greatly Disapprove if they Smoked Cigarettes, by Gender and Grade, 2010***

|       |      | Male   |     | Female |     |
|-------|------|--------|-----|--------|-----|
|       |      | N (#)  | %   | N (#)  | %   |
| Grade | 6th  | 21,024 | 97% | 21,512 | 98% |
|       | 9th  | 19,794 | 96% | 21,351 | 87% |
|       | 12th | 14,549 | 89% | 15,963 | 92% |

***Students Reporting that they Believe their Parents or Guardians Would Disapprove or Greatly Disapprove if they Smoked Cigarettes, by Race/Ethnicity and Grade, 2010***

| Race/Ethnicity                     | 6 <sup>th</sup> Grade |     | 9th grade |     | 12th grade |     |
|------------------------------------|-----------------------|-----|-----------|-----|------------|-----|
|                                    | N (#)                 | %   | N (#)     | %   | N (#)      | %   |
| White                              | 29,229                | 99% | 30,938    | 97% | 24,732     | 92% |
| African-American, African or Black | 2,274                 | 95% | 1,861     | 84% | 1,198      | 88% |
| American Indian                    | 834                   | 94% | 476       | 86% | 191        | 66% |
| Asian American/Pacific Islander    | 2,094                 | 95% | 2,150     | 96% | 1,602      | 93% |
| Hispanic/Latino                    | 2,002                 | 95% | 1,707     | 95% | 871        | 89% |

***Race-Specific Data on Youth Perception of Parents or Guardians Disapproval***

| <b>White students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they smoked cigarettes, by gender and grade, 2010</b>                              |      |             |     |               |     |
|---|------|-------------|-----|---------------|-----|
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 14,572      | 98% | 14,657        | 99% |
|   | 9th  | 14,816      | 97% | 16,122        | 97% |
|   | 12th | 11,778      | 89% | 12,594        | 93% |
| <b>African-American, African or Black students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they smoked cigarettes, by gender and grade, 2010</b> |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 1,143       | 95% | 1,131         | 95% |
|   | 9th  | 947         | 92% | 914           | 97% |
|   | 12th | 562         | 85% | 636           | 90% |
| <b>American Indian students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they smoked cigarettes, by gender and grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 443         | 93% | 391           | 95% |
|   | 9th  | 264         | 85% | 212           | 88% |
|   | 12th | 100         | 65% | 91            | 67% |
| <b>Asian American/Pacific Islander students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they smoked cigarettes, by gender and grade, 2010</b>    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 1,030       | 94% | 1,064         | 96% |
|   | 9th  | 988         | 94% | 1,162         | 97% |
|   | 12th | 750         | 91% | 852           | 96% |
| <b>Hispanic/Latino students reporting that they believe their parents or guardians would disapprove or greatly disapprove if they smoked cigarettes, by gender and grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 985         | 94% | 1,017         | 95% |
|   | 9th  | 862         | 94% | 845           | 97% |
|   | 12th | 405         | 87% | 466           | 91% |

***Students Reporting that they Believe their Parents or Guardians Would Disapprove or Greatly Disapprove if they Smoked Cigarettes, by Region and Race/Ethnicity, 2010***

|                |                                    | Metro  |     | Non-Metro |     |
|----------------|------------------------------------|--------|-----|-----------|-----|
| Race/Ethnicity |                                    | N (#)  | %   | N (#)     | %   |
|                | White                              | 41,612 | 96% | 43,287    | 95% |
|                | African-American, African or Black | 4,529  | 93% | 804       | 91% |
|                | American Indian                    | 577    | 89% | 924       | 86% |
|                | Asian American/Pacific Islander    | 4,942  | 95% | 904       | 94% |
|                | Hispanic/Latino                    | 2,888  | 94% | 1,692     | 93% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## 8. Illicit Drug Use in Minnesota: Consumption Patterns

### Recent Marijuana Use

**About the Indicator:** Current marijuana use is often assessed with measures of reported use in the past 30 days (30-day use).

**Data Source(s):** Adults: National Survey on Drug Use and Health (NSDUH) and the Minnesota Survey of Adult Substance Use (MNSASU)

Youth: Minnesota Student Survey (MSS)

#### **Section Summary:**

Adults:

- The percent of Minnesotans aged 18-25 reporting past month use of marijuana increased from 16.7% in 2004/2005 to 20.9% in 2007/2008 (NSDUH).
- Males reported higher current marijuana use than females in all age groups (MNSASU).
- Adults in the seven metro counties reported higher rates of marijuana use than those in the non-metro counties (MNSASU).

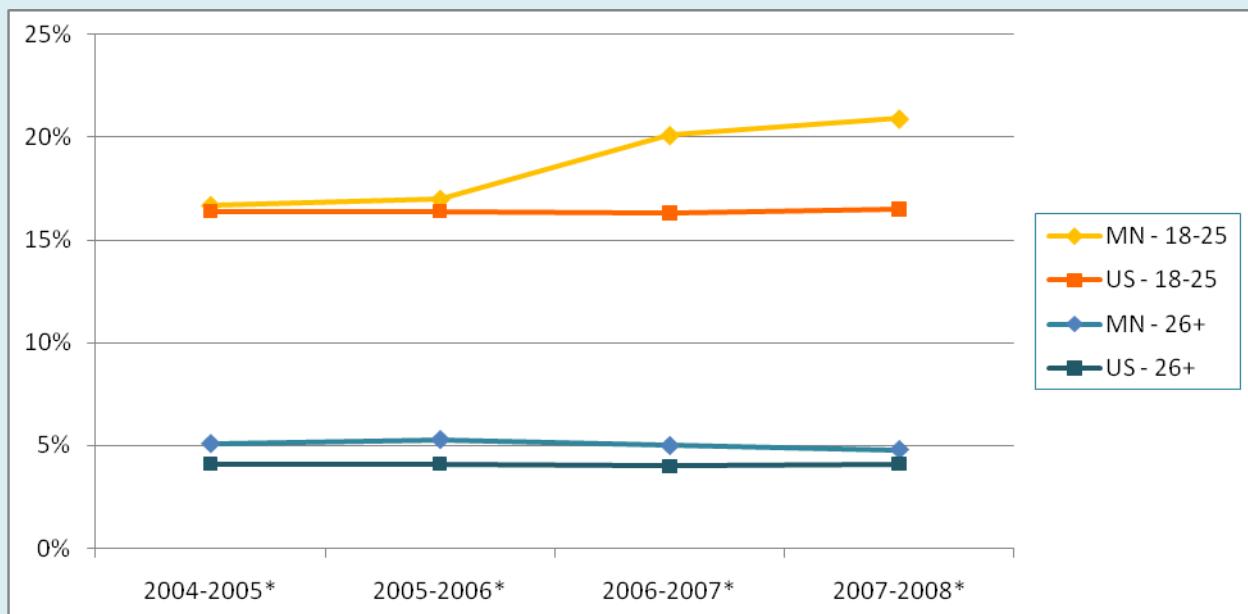
Youth:

- The use of marijuana by students decreased from 11% in 2001 to 9% in 2007, then increased to 10% in 2010.
- 20% of 12th graders reported past 30-day marijuana use in 2010.
- In 2010, reported current marijuana use was higher in the seven-county metro area than it was in non-metro Minnesota: 10% vs 8%.

**Substance:** Marijuana

**Data Source:** NSDUH

***Adults Reporting Marijuana Use in the Past 30 Days***



| Minnesota                              | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
|--|-------------------|-------------------|-------------------|-------------------|
| <b>Total current marijuana use (%)</b> | <b>6.9%</b>       | <b>7.2%</b>       | <b>7.3%</b>       | <b>7.1%</b>       |
| Ages 12 thru 17                        | 7.8%              | 7.5%              | 7.1%              | 6.6%              |
| Ages 18 thru 25                        | 16.7%             | 17.0%             | 20.1%             | 20.9%             |
| Ages 26 and Over                       | 5.1%              | 5.3%              | 5.0%              | 4.8%              |
| United States                          | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
| <b>Total current marijuana use (%)</b> | <b>6.0%</b>       | <b>6.0%</b>       | <b>5.9%</b>       | <b>6.0%</b>       |
| Ages 12 thru 17                        | 7.2%              | 6.7%              | 6.7%              | 6.7%              |
| Ages 18 thru 25                        | 16.4%             | 16.4%             | 16.3%             | 16.5%             |
| Ages 26 and Over                       | 4.1%              | 4.1%              | 4.0%              | 4.1%              |
| <b>Total current marijuana use (%)</b> | <b>2004-2005*</b> | <b>2005-2006*</b> | <b>2006-2007*</b> | <b>2007-2008*</b> |
| <b>MN:US**</b>                         | 1.15              | 1.19              | 1.24              | 1.18              |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Marijuana

**Data Source:** MNSASU

***Adults Reporting Marijuana Use in the Past 30 Days***

| <b>Percent of Minnesota adults reporting Marijuana use within the past 30 days by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|--|---------------------------------|-------------|---------------|
|  |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>   | Ages 18 thru 20                 | 22.4%       | 14.6%         |
|  | Ages 21 thru 24                 | 16.0%       | 11.8%         |
|  | Ages 25 thru 44                 | 5.9%        | 1.8%          |
|  | Ages 45 thru 64                 | 3.5%        | 0.7%          |
|  | Ages 65 and over                | 0.1%        | 0.0%          |
| <b>Race/Ethnicity</b>  | White                           | 6.0%        | 2.4%          |
|  | African American or Black       | 8.7%        | 3.8%          |
|  | American Indian                 | 28.2%       | 9.1%          |
|  | Asian American/Pacific Islander | 1.8%        | 2.8%          |
|  | Hispanic/Latino                 | 2.3%        | 4.2%          |
|  | Bi-Racial/Multi-Racial          | 18.2%       | 10.0%         |
| <b>Region</b>  | Metro                           | 7.3%        | 3.8%          |
|  | Non-Metro                       | 4.8%        | 1.4%          |
|  | Total                           | 6.1%        | 2.6%          |

| <b>Percent of Minnesota adults reporting smoking cigarettes within the past 30 days by race/ethnicity and region, 2004/2005</b> |                                 |               |                  |
|---|---------------------------------|---------------|------------------|
|   |                                 | <b>METRO*</b> | <b>NON-METRO</b> |
| <b>Race/Ethnicity</b>   | White                           | 4.1%          | 2.4%             |
|   | African American or Black       | 6.6%          | 0.0%             |
|   | American Indian                 | 15.8%         | 16.1%            |
|   | Asian American/Pacific Islander | 1.1%          | 0.0%             |
|   | Hispanic/Latino                 | 2.8%          | 0.7%             |
|   | Bi-Racial/Multi-Racial          | 13.1%         | 6.1%             |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Marijuana

**Data Source:** MSS

***Students Reporting Smoking Marijuana within the Past 30 Days***

| Minnesota                  | 2001   | 2004   | 2007   | 2010   |
|----------------------------|--------|--------|--------|--------|
| Number reporting use       | 13,706 | 12,361 | 11,733 | 12,361 |
| Percent of all respondents | 11%    | 10%    | 9%     | 10%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Marijuana Use in the Past 30 Days by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %   |
|-----------------------|------------------------------------|-------|-----|
| <b>Gender</b>         | Male                               | 6,474 | 11% |
|                       | Female                             | 5,887 | 9%  |
| <b>Grade</b>          | 6th                                | 468   | 1%  |
|                       | 9th                                | 4,248 | 10% |
|                       | 12th                               | 6,795 | 20% |
| <b>Race/Ethnicity</b> |                                    |       |     |
|                       | White                              | 9,676 | 10% |
|                       | African-American, African or Black | 727   | 13% |
|                       | American Indian                    | 745   | 14% |
|                       | Asian American/Pacific Islander    | 440   | 7%  |
| <b>Region</b>         | Hispanic/Latino                    | 773   | 14% |
|                       | Metro                              | 6,792 | 10% |
|                       | Non-metro                          | 4,719 | 8%  |

***Minnesota Students Reporting Marijuana Use in the Past 30 Days by Gender and Grade, 2010***

|              |                 | <b>Male</b> |     | <b>Female</b> |     |
|--------------|-----------------|-------------|-----|---------------|-----|
|              |                 | N (#)       | %   | N (#)         | %   |
| <b>Grade</b> | 6 <sup>th</sup> | 278         | 1%  | 190           | 1%  |
|              | 9th             | 2,298       | 11% | 1,950         | 9%  |
|              | 12th            | 4,051       | 25% | 2,744         | 16% |

**Minnesota Students Reporting Marijuana Use in the Past 30 Days by Race/Ethnicity and Grade, 2010**

| Race/Ethnicity                     | 6th grade |    | 9th grade |     | 12th grade |     |
|------------------------------------|-----------|----|-----------|-----|------------|-----|
|                                    | N (#)     | %  | N (#)     | %   | N (#)      | %   |
| White                              | 166       | 1% | 2,509     | 8%  | 5,339      | 20% |
| African-American, African or Black | 61        | 2% | 330       | 16% | 344        | 24% |
| American Indian                    | 52        | 6% | 143       | 25% | 106        | 36% |
| Asian American/Pacific Islander    | 19        | 1% | 123       | 5%  | 176        | 10% |
| Hispanic/Latino                    | 63        | 3% | 335       | 18% | 210        | 21% |

**Race-Specific Data on Marijuana Use in the Past 30 Days**

| White students reporting marijuana use by gender and grade, 2010                              |  |       |     |        |     |
|---|--|-------|-----|--------|-----|
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 6th   |  | 113   | 1%  | 53     | 0%  |
| 9th   |  | 1,321 | 9%  | 1,188  | 7%  |
| 12th  |  | 3,154 | 24% | 2,185  | 16% |
| African-American, African or Black students reporting marijuana use by gender and grade, 2010 |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 6th   |  | 37    | 3%  | 24     | 2%  |
| 9th   |  | 208   | 19% | 122    | 13% |
| 12th  |  | 219   | 31% | 125    | 17% |
| American Indian students reporting marijuana use by gender and grade, 2010                    |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 6th   |  | 24    | 5%  | 28     | 7%  |
| 9th   |  | 76    | 24% | 67     | 27% |
| 12th  |  | 65    | 41% | 41     | 31% |
| Asian American/Pacific Islander students reporting marijuana use by gender and grade, 2010    |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 6th   |  | 14    | 1%  | 5      | 0%  |
| 9th   |  | 79    | 7%  | 44     | 4%  |
| 12th  |  | 117   | 14% | 59     | 7%  |
| Hispanic/Latino students reporting marijuana use by gender and grade, 2010                    |  |       |     |        |     |
| Grade   |  | Male  |     | Female |     |
|   |  | N (#) | %   | N (#)  | %   |
| 6th   |  | 33    | 3%  | 30     | 3%  |
| 9th   |  | 196   | 21% | 139    | 16% |
| 12th  |  | 139   | 29% | 71     | 14% |

**Minnesota Students Reporting Marijuana Use in the Past 30 Days by Region and Race/Ethnicity, 2010**

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 4,437        | 10%      | 3,577            | 8%       |
| African-American, African or Black | 632          | 13%      | 103              | 11%      |
| American Indian                    | 100          | 15%      | 201              | 18%      |
| Asian American/Pacific Islander    | 250          | 5%       | 68               | 7%       |
| Hispanic/Latino                    | 387          | 12%      | 221              | 12%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Age at First Use of Marijuana

**About the Indicator:** Prevention planners may use data about age of first use as one factor in determining when to initiate prevention programs, policies, and practices. In addition, these data are valuable for reporting purposes. Some grantees are required to report age of first use as one their GPRA measures.

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Males were more likely than females to have first tried marijuana by age 13 or younger (7% vs 5%).
- Average age at first use was the same in the seven-county metro area as in the non-metro counties.

**Substance:** Marijuana

**Data Source:** Minnesota Student Survey

***Age at Which Students Reported First Smoking Marijuana***

| <b>Minnesota students reporting age they first smoked Marijuana by gender, 2007</b> |        |              |          |
|---|--------|--------------|----------|
|   |        | <b>N (#)</b> | <b>%</b> |
| 10 years old or younger   | Male   | 1,093        | 2.0%     |
|   | Female | 463          | 0.8%     |
| 11 years old  | Male   | 643          | 1.2%     |
|   | Female | 389          | 0.7%     |
| 12 years old  | Male   | 816          | 1.5%     |
|   | Female | 605          | 1.0%     |
| 13 years old  | Male   | 1,404        | 2.5%     |
|   | Female | 1,319        | 2.3%     |
| 14 years old  | Male   | 2,219        | 4.0%     |
|   | Female | 2,204        | 3.8%     |
| 15 years old  | Male   | 1,741        | 3.1%     |
|   | Female | 1,669        | 2.9%     |
| 16 years old  | Male   | 1,628        | 2.9%     |
|   | Female | 1,526        | 2.6%     |
| 17 years old or older   | Male   | 1,610        | 2.9%     |
|   | Female | 1,478        | 2.5%     |

***Minnesota Students Reporting they First Smoked Marijuana at Age 13 or Younger, by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | <b>N (#)</b> | <b>%</b> |
|-----------------------|------------------------------------|--------------|----------|
| <b>Gender</b>         | Male                               | 3,956        | 7%       |
|                       | Female                             | 2776         | 5%       |
|                       | Total                              | 6,732        | 6%       |
| <b>Grade</b>          | 6th                                | 872          | 2%       |
|                       | 9th                                | 3,556        | 8%       |
|                       | 12th                               | 2,304        | 7%       |
| <b>Race/Ethnicity</b> | White                              | 3,725        | 4%       |
|                       | African-American, African or Black | 615          | 11%      |
|                       | American Indian                    | 343          | 21%      |
|                       | Asian American/Pacific Islander    | 260          | 5%       |
|                       | Hispanic/Latino                    | 575          | 13%      |
| <b>Region</b>         | Metro                              | 3,742        | 6%       |
|                       | Non-Metro                          | 2,990        | 6%       |

**Average Age Minnesota Students First Smoked Marijuana by Gender and Grade, 2010**

|                       |                        | Male | Female |
|-----------------------|------------------------|------|--------|
| <b>7-County Metro</b> | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 13   | 13     |
|                       | 12 <sup>th</sup> Grade | 15   | 15     |
| <b>Non-metro</b>      | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 13   | 13     |
|                       | 12 <sup>th</sup> Grade | 15   | 15     |
| <b>Total</b>          | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 13   | 13     |
|                       | 12 <sup>th</sup> Grade | 15   | 15     |

Note: Age category options on the survey include "10 or younger" and "17 or older". To calculate an average, these categories were set at 10 and 17 respectively. Average age for 6<sup>th</sup> graders will be lower than for 9<sup>th</sup> graders, and 9<sup>th</sup> lower than 12<sup>th</sup>, reflecting the ages of students in each grade. Average age was calculated only for those students who reported ever smoking marijuana.

## Other Illicit Drug Use

**About the Indicator:** Illicit drug use is measured here using reported 12 month use of any illicit drug other than marijuana:

- Inhalants—youth
- Methamphetamine—adults and youth
- MDMA/Ecstasy—adults and youth
- Crack/cocaine—adults and youth
- Psychedelics—adults and youth
- Heroin—adults and youth

**Data Source(s):** Adults: National Survey on Drug Use and Health (NSDUH) and the Minnesota Survey of Adult Substance Use (MNSASU)

Youth: Minnesota Student Survey (MSS)

### **Section Summary:**

Adults:

- Current illicit drug use in Minnesota has remained stable in recent years and is below national rates.
- Current illicit drug use is most common among adults age 18-25 compared to other age groups.

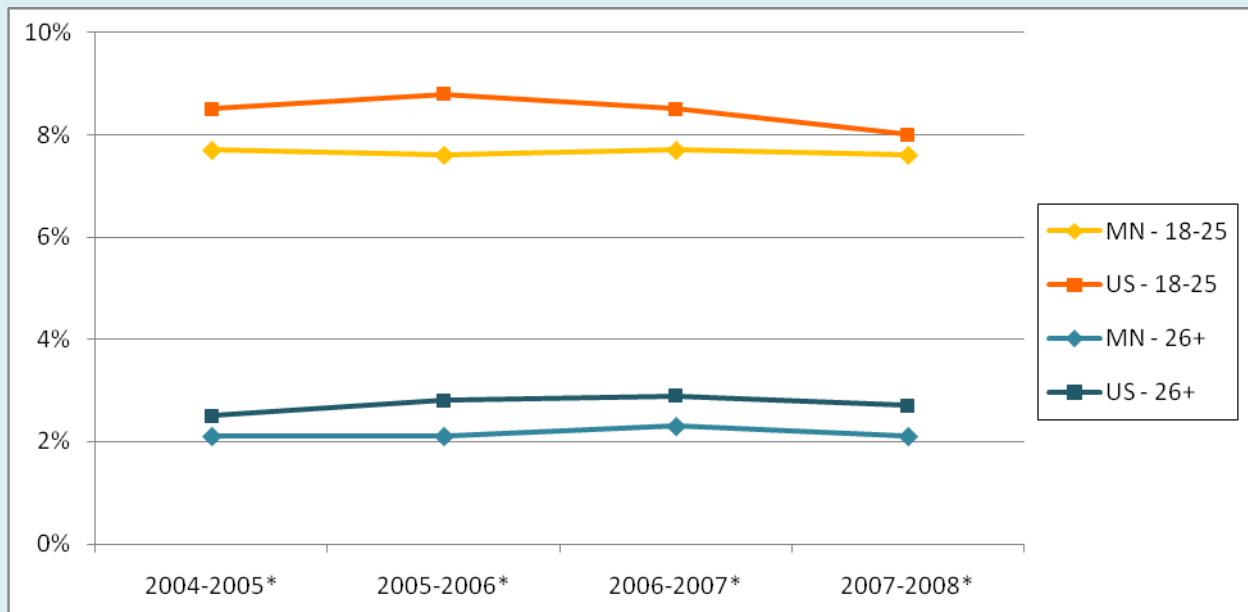
Youth:

- There has been an overall decrease in reported use of inhalants, methamphetamine, MDMA/Ecstasy, crack/cocaine and psychedelics since 2001.
- The largest drop was in reported methamphetamine use: from 6% in 2001 to 1% in 2010.

**Substance: Illicit Drugs**

**Data Source:** NSDUH

***Percent of Population Reporting Drug Use (Other than Marijuana) in the Past 30 Days***



| Minnesota                                 | 2004-2005*  | 2005-2006*  | 2006-2007*  | 2007-2008*  |
|---|-------------|-------------|-------------|-------------|
| <b>Total current illicit drug use (%)</b> | <b>3.1%</b> | <b>3.2%</b> | <b>3.2%</b> | <b>3.1%</b> |
| Ages 12 thru 17                           | 4.7%        | 5.2%        | 4.6%        | 4.3%        |
| Ages 18 thru 25                           | 7.7%        | 7.6%        | 7.7%        | 7.6%        |
| Ages 26 and Over                          | 2.1%        | 2.1%        | 2.3%        | 2.1%        |
| United States                             | 2004-2005*  | 2005-2006*  | 2006-2007*  | 2007-2008*  |
| <b>Total current illicit drug use (%)</b> | <b>3.6%</b> | <b>3.8%</b> | <b>3.8%</b> | <b>3.6%</b> |
| Ages 12 thru 17                           | 5.1%        | 4.9%        | 4.8%        | 4.5%        |
| Ages 18 thru 25                           | 8.5%        | 8.8%        | 8.5%        | 8.0%        |
| Ages 26 and Over                          | 2.5%        | 2.8%        | 2.9%        | 2.7%        |
| <b>Total current illicit drug use (%)</b> | <b>0.86</b> | <b>0.84</b> | <b>0.84</b> | <b>0.86</b> |
| <b>MN:US**</b>                            |             |             |             |             |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Inhalants

**Data Source:** MSS

***Students Reporting Use of Inhalants within the Past 12 Months***

| Minnesota                  | 2001  | 2004  | 2007  | 2010  |
|----------------------------|-------|-------|-------|-------|
| Number reporting use       | 4,832 | 5,000 | 3,840 | 3,542 |
| Percent of all respondents | 4%    | 4%    | 3%    | 3%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Inhalant Use within the Past 12 Months by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 2,054 | 3% |
|                       | Female                             | 2,131 | 3% |
|                       |                                    |       |    |
|                       | 6th                                | 1,401 | 3% |
|                       | 9th                                | 1,686 | 3% |
|                       | 12th                               | 874   | 2% |
|                       |                                    |       |    |
| <b>Race/Ethnicity</b> | White                              | 2,830 | 3% |
|                       | African-American, African or Black | 327   | 4% |
|                       | American Indian                    | 396   | 7% |
|                       | Asian American/Pacific Islander    | 204   | 3% |
|                       | Hispanic/Latino                    | 428   | 6% |
|                       |                                    |       |    |
| <b>Region</b>         | Metro                              | 1,859 | 3% |
|                       | Non-metro                          | 1,683 | 3% |

***Minnesota Students Reporting Inhalant Use within the Past 12 Months by Gender and Grade, 2010***

|              |                 | Male  |    | Female |    |
|--------------|-----------------|-------|----|--------|----|
|              |                 | N (#) | %  | N (#)  | %  |
| <b>Grade</b> | 6 <sup>th</sup> | 746   | 4% | 655    | 3% |
|              | 9th             | 600   | 3% | 743    | 3% |
|              | 12th            | 517   | 3% | 281    | 2% |

**Race-Specific Data on Use of Inhalants within the Past 12 Months**

| White students reporting inhalant use by gender and grade, 2010                              |                 |       |    |        |    |
|--|-----------------|-------|----|--------|----|
|  |                 | Male  |    | Female |    |
|  |                 | N (#) | %  | N (#)  | %  |
| Grade  | 6 <sup>th</sup> | 441   | 3% | 331    | 2% |
|  | 9th             | 359   | 2% | 519    | 3% |
|  | 12th            | 336   | 3% | 201    | 1% |
| African-American, African or Black students reporting inhalant use by gender and grade, 2010 |                 |       |    |        |    |
|  |                 | Male  |    | Female |    |
|  |                 | N (#) | %  | N (#)  | %  |
| Grade  | 6 <sup>th</sup> | 62    | 5% | 52     | 5% |
|  | 9th             | 53    | 5% | 18     | 2% |
|  | 12th            | 45    | 7% | 17     | 2% |
| American Indian students reporting inhalant use by gender and grade, 2010                    |                 |       |    |        |    |
|  |                 | Male  |    | Female |    |
|  |                 | N (#) | %  | N (#)  | %  |
| Grade  | 6th             | 22    | 5% | 32     | 8% |
|  | 9th             | 14    | 5% | 19     | 8% |
|  | 12th            | 11    | 7% | 6      | 5% |
| Asian American/Pacific Islander students reporting inhalant use by gender and grade, 2010    |                 |       |    |        |    |
|  |                 | Male  |    | Female |    |
|  |                 | N (#) | %  | N (#)  | %  |
| Grade  | 6th             | 23    | 2% | 32     | 3% |
|  | 9th             | 22    | 2% | 21     | 2% |
|  | 12th            | 36    | 4% | 7      | 1% |
| Hispanic/Latino students reporting inhalant use by gender and grade, 2010                    |                 |       |    |        |    |
|  |                 | Male  |    | Female |    |
|  |                 | N (#) | %  | N (#)  | %  |
| Grade  | 6th             | 63    | 6% | 72     | 7% |
|  | 9th             | 43    | 5% | 41     | 5% |
|  | 12th            | 27    | 6% | 18     | 4% |

**Minnesota Students Reporting Inhalant Use in the Past 12 Months by Region and Race/Ethnicity, 2010**

|                                    |  | Metro |    | Non-Metro |    |
|------------------------------------|--|-------|----|-----------|----|
| Race/Ethnicity                     |  | N (#) | %  | N (#)     | %  |
| White                              |  | 1,017 | 2% | 1,170     | 3% |
| African-American, African or Black |  | 200   | 4% | 47        | 5% |
| American Indian                    |  | 32    | 5% | 72        | 7% |
| Asian American/Pacific Islander    |  | 108   | 2% | 33        | 3% |
| Hispanic/Latino                    |  | 166   | 6% | 98        | 6% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Methamphetamines

**Data Source:** MNSASU

**Adults Reporting Methamphetamine Use in the Past 12 Months**

| <b>Percent of Minnesota adults reporting methamphetamine use within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|--|---------------------------------|-------------|---------------|
|  |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>   | Ages 18 thru 20                 | 3.1%        | 2.3%          |
|  | Ages 21 thru 24                 | 3.8%        | 0.0%          |
|  | Ages 25 thru 44                 | 0.9%        | 0.4%          |
|  | Ages 45 thru 64                 | 0.1%        | 0.0%          |
|  | Ages 65 and over                | 0.0%        | 0.0%          |
| <b>Race/Ethnicity</b>  | White                           | 0.9%        | 0.3%          |
|  | African American or Black       | 0.0%        | 0.1%          |
|  | American Indian                 | 5.0%        | 0.0%          |
|  | Asian American/Pacific Islander | 0.0%        | 0.1%          |
|  | Hispanic/Latino                 | 0.0%        | 0.0%          |
|  | Bi-Racial/Multi-Racial          | 3.4%        | 1.9%          |
| <b>Region</b>  | Metro                           | 0.8%        | 0.5%          |
|  | Non-Metro                       | 1.0%        | 0.1%          |
|  | Total                           | 0.9%        | 0.3%          |

**Percent of Minnesota Adults Reporting Methamphetamine Use within the Past 12 Months by Race/Ethnicity and Region, 2004/2005**

|                       |                                 | <b>Metro*</b> | <b>Non-Metro</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> | White                           | 0.7%          | 0.5%             |
|                       | African American or Black       | 0.1%          | 0.0%             |
|                       | American Indian                 | 0.0%          | 3.7%             |
|                       | Asian American/Pacific Islander | 0.0%          | 0.0%             |
|                       | Hispanic/Latino                 | 2.0%          | 0.0%             |
|                       | Bi-Racial/Multi-Racial          | 1.6%          | 4.1%             |

\*Metro refers to the seven-county metro area

**Substance:** Methamphetamines

**Data Source:** MSS

***Students Reporting Methamphetamine Use within the Past 12 Months***

| Minnesota                  | 2001  | 2004  | 2007  | 2010 |
|----------------------------|-------|-------|-------|------|
| Number reporting use       | 4,175 | 3,585 | 1,389 | 927  |
| Percent of all respondents | 6%    | 5%    | 2%    | 1%   |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Methamphetamine Use within the Past 12 Months, by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 600   | 2% |
|                       | Female                             | 327   | 1% |
| <b>Grade</b>          | 9th                                | 462   | 1% |
|                       | 12th                               | 465   | 1% |
| <b>Race/Ethnicity</b> | White                              | 544   | 1% |
|                       | African-American, African or Black | 90    | 3% |
|                       | American Indian                    | 23    | 3% |
|                       | Asian American/Pacific Islander    | 44    | 1% |
|                       | Hispanic/Latino                    | 65    | 2% |
| <b>Region</b>         | Metro                              | 522   | 1% |
|                       | Non-metro                          | 405   | 1% |

***Minnesota Students Reporting Methamphetamine Use within the Past 12 Months by Gender and Grade, 2010***

|              |                 | Male  |    | Female |    |
|--------------|-----------------|-------|----|--------|----|
|              |                 | N (#) | %  | N (#)  | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 269   | 1% | 193    | 1% |
|              | 12th            | 331   | 2% | 134    | 1% |

**Race-Specific Data on Methamphetamine Use in the Past 12 Months, 2010**

| White students reporting methamphetamine use by gender and grade, 2010                              |                 |       |    |        |    |
|---|-----------------|-------|----|--------|----|
| Grade   | 9 <sup>th</sup> | Male  |    | Female |    |
|   |                 | N (#) | %  | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 138   | 1% | 116    | 1% |
|   | 12th            | 205   | 2% | 85     | 1% |
| African-American, African or Black students reporting methamphetamine use by gender and grade, 2010 |                 |       |    |        |    |
| Grade   | 9th             | Male  |    | Female |    |
|   |                 | N (#) | %  | N (#)  | %  |
| Grade   | 9th             | 36    | 4% | 9      | 1% |
|   | 12th            | 34    | 5% | 11     | 2% |
| American Indian students reporting methamphetamine use by gender and grade, 2010                    |                 |       |    |        |    |
| Grade   | 9 <sup>th</sup> | Male  |    | Female |    |
|   |                 | N (#) | %  | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 11    | 1% | 8      | 1% |
|   | 12th            | 21    | 3% | 4      | 0% |
| Asian American/Pacific Islander students reporting methamphetamine use by gender and grade, 2010    |                 |       |    |        |    |
| Grade   | 9th             | Male  |    | Female |    |
|   |                 | N (#) | %  | N (#)  | %  |
| Grade   | 9th             | 19    | 2% | 18     | 2% |
|   | 12th            | 19    | 4% | 9      | 2% |
| Hispanic/Latino students reporting methamphetamine use by gender and grade, 2010                    |                 |       |    |        |    |
| Grade   | 9 <sup>th</sup> | Male  |    | Female |    |
|   |                 | N (#) | %  | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 19    | 2% | 18     | 2% |
|   | 12th            | 19    | 4% | 9      | 2% |

**Minnesota Students Reporting Methamphetamine Use in the Past 12 Months by Region and Race/Ethnicity, 2010**

|                                    |  | Metro |    | Non-Metro |    |
|------------------------------------|--|-------|----|-----------|----|
| Race/Ethnicity                     |  | N (#) | %  | N (#)     | %  |
| White                              |  | 276   | 1% | 268       | 1% |
| African-American, African or Black |  | 67    | 2% | 23        | 5% |
| American Indian                    |  | 7     | 3% | 16        | 3% |
| Asian American/Pacific Islander    |  | 35    | 1% | 9         | 1% |
| Hispanic/Latino                    |  | 39    | 2% | 26        | 3% |

**Substance:** MDMA/Ecstasy

**Data Source:** MNSASU

***Adults Reporting MDMA/Ecstasy Use in the Past 12 Months***

| <b>Percent of Minnesota adults reporting MDMA/Ecstasy use within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|---|---------------------------------|-------------|---------------|
|   |                                 | <b>Male</b> | <b>Female</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 3.5%        | 4.6%          |
|   | Ages 21 thru 24                 | 3.6%        | 2.9%          |
|   | Ages 25 thru 44                 | 0.4%        | 0.1%          |
|   | Ages 45 thru 64                 | 0.0%        | 0.0%          |
|   | Ages 65 and over                | 0.0%        | 0.0%          |
| <b>Race/Ethnicity</b>   | White                           | 0.7%        | 0.5%          |
|   | African American or Black       | 1.0%        | 1.0%          |
|   | American Indian                 | 0.0%        | 0.0%          |
|   | Asian American/Pacific Islander | 0.3%        | 0.2%          |
|   | Hispanic/Latino                 | 0.5%        | 2.3%          |
|   | Bi-Racial/Multi-Racial          | 3.4%        | 0.0%          |
| <b>Region</b>   | Metro                           | 0.8%        | 1.0%          |
|   | Non-Metro                       | 0.5%        | 0.0%          |
|   | Total                           | 0.7%        | 0.5%          |

***Percent of Minnesota Adults Reporting MDMA/Ecstasy Use within the Past 12 Months by Race/Ethnicity and Region, 2004/2005***

|                                 |       | <b>Metro*</b> | <b>Non-Metro</b> |
|---------------------------------|-------|---------------|------------------|
| <b>Race/Ethnicity</b>           | White | 0.9%          | 0.3%             |
| African American or Black       | 1.0%  | 0.0%          |                  |
| American Indian                 | 0.0%  | 0.0%          |                  |
| Asian American/Pacific Islander | 0.1%  | 1.1%          |                  |
| Hispanic/Latino                 | 2.0%  | 0.0%          |                  |
| Bi-Racial/Multi-Racial          | 0.0%  | 4.1%          |                  |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** MDMA/Ecstasy

**Data Source:** MSS

***Students Reporting MDMA/Ecstasy Use within the Past 12 Months***

| Minnesota                  | 2001  | 2004  | 2007  | 2010  |
|----------------------------|-------|-------|-------|-------|
| Number reporting use       | 4,086 | 2,577 | 2,567 | 2,505 |
| Percent of all respondents | 5%    | 3%    | 3%    | 3%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting MDMA/Ecstasy Use in the Past 12 Months by Gender, Grade, Race/Ethnicity, and Region, 2007***

|                |                                    | N (#) | %  |
|----------------|------------------------------------|-------|----|
| Gender         | Male                               | 1,418 | 4% |
|                | Female                             | 1,087 | 3% |
|                |                                    |       |    |
|                | 9th                                | 1,000 | 2% |
|                | 12th                               | 1,505 | 5% |
|                |                                    |       |    |
| Race/Ethnicity | White                              | 1,723 | 3% |
|                | African-American, African or Black | 142   | 4% |
|                | American Indian                    | 50    | 6% |
|                | Asian American/Pacific Islander    | 103   | 3% |
|                | Hispanic/Latino                    | 131   | 5% |
|                |                                    |       |    |
| Region         | Metro                              | 1,604 | 4% |
|                | Non-metro                          | 901   | 3% |

***Minnesota Students Reporting MDMA/Ecstasy Use in the Past 12 Months by Gender and grade, 2010***

|       |      | Male  |    | Female |    |
|-------|------|-------|----|--------|----|
|       |      | N (#) | %  | N (#)  | %  |
| Grade | 9th  | 518   | 3% | 482    | 2% |
|       | 12th | 900   | 6% | 605    | 4% |

**Race-Specific Data on MDMA/Ecstasy Use in the Past 12 Months**

| White students reporting MDMA/Ecstasy use by gender and grade, 2010                              |      |       |     |        |    |
|--|------|-------|-----|--------|----|
|  |      | Male  |     | Female |    |
|  |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b>   | 9th  | 287   | 2%  | 309    | 2% |
|  | 12th | 657   | 5%  | 470    | 3% |
| African-American, African or Black students reporting MDMA/Ecstasy use by gender and grade, 2010 |      |       |     |        |    |
|  |      | Male  |     | Female |    |
|  |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b>   | 9th  | 47    | 5%  | 15     | 2% |
|  | 12th | 57    | 9%  | 23     | 3% |
| American Indian students reporting MDMA/Ecstasy use by gender and grade, 2010                    |      |       |     |        |    |
|  |      | Male  |     | Female |    |
|  |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b>   | 9th  | 12    | 4%  | 13     | 6% |
|  | 12th | 15    | 10% | 10     | 8% |
| Asian American/Pacific Islander students reporting MDMA/Ecstasy use by gender and grade, 2010    |      |       |     |        |    |
|  |      | Male  |     | Female |    |
|  |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b>   | 9th  | 19    | 2%  | 21     | 2% |
|  | 12th | 42    | 5%  | 21     | 2% |
| Hispanic/Latino students reporting MDMA/Ecstasy use by gender and grade, 2010                    |      |       |     |        |    |
|  |      | Male  |     | Female |    |
|  |      | N (#) | %   | N (#)  | %  |
| <b>Grade</b>   | 9th  | 44    | 5%  | 34     | 4% |
|  | 12th | 38    | 8%  | 15     | 3% |

**Minnesota Students Reporting MDMA/Ecstasy Use in the Past 12 Months by Region and Race/Ethnicity, 2010**

|                |                                    | Metro |    | Non-Metro |    |
|----------------|------------------------------------|-------|----|-----------|----|
| Race/Ethnicity |                                    | N (#) | %  | N (#)     | %  |
|                | White                              | 1,067 | 4% | 656       | 2% |
|                | African-American, African or Black | 110   | 4% | 32        | 6% |
|                | American Indian                    | 20    | 8% | 30        | 5% |
|                | Asian American/Pacific Islander    | 85    | 3% | 18        | 3% |
|                | Hispanic/Latino                    | 82    | 5% | 49        | 5% |

**Substance:** Crack/Cocaine

**Data Source:** MNSASU

***Adults Reporting Crack/Cocaine Use in the Past 12 Months***

| <b>Percent of Minnesota adults reporting crack/cocaine use within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|--|---------------------------------|-------------|---------------|
|  |                                 | <b>Male</b> | <b>Female</b> |
| <b>Age</b>   | Ages 18 thru 20                 | 7.5%        | 5.4%          |
|  | Ages 21 thru 24                 | 4.8%        | 1.8%          |
|  | Ages 25 thru 44                 | 1.3%        | 0.4%          |
|  | Ages 45 thru 64                 | 0.7%        | 0.2%          |
|  | Ages 65 and over                | 0.0%        | 0.0%          |
| <b>Race/Ethnicity</b>  | White                           | 1.6%        | 0.7%          |
|  | African American or Black       | 1.2%        | 0.5%          |
|  | American Indian                 | 0.3%        | 2.7%          |
|  | Asian American/Pacific Islander | 0.0%        | 0.1%          |
|  | Hispanic/Latino                 | 2.8%        | 0.1%          |
|  | Bi-Racial/Multi-Racial          | 0.9%        | 0.6%          |
| <b>Region</b>  | Metro                           | 1.6%        | 0.9%          |
|  | Non-Metro                       | 1.5%        | 0.3%          |
|  | Total                           | 1.6%        | 0.6%          |

***Percent of Minnesota Adults Reporting Crack/Cocaine Use within the Past 12 Months by Race/Ethnicity and Region, 2004/2005***

|                       |                                 | <b>Metro*</b> | <b>Non-Metro</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> |                                 |               |                  |
|                       | White                           | 1.4%          | 0.9%             |
|                       | African American or Black       | 0.9%          | 0.0%             |
|                       | American Indian                 | 1.9%          | 1.7%             |
|                       | Asian American/Pacific Islander | 0.0%          | 0.0%             |
|                       | Hispanic/Latino                 | 1.3%          | 1.5%             |
|                       | Bi-Racial/Multi-Racial          | 0.7%          | 0.8%             |

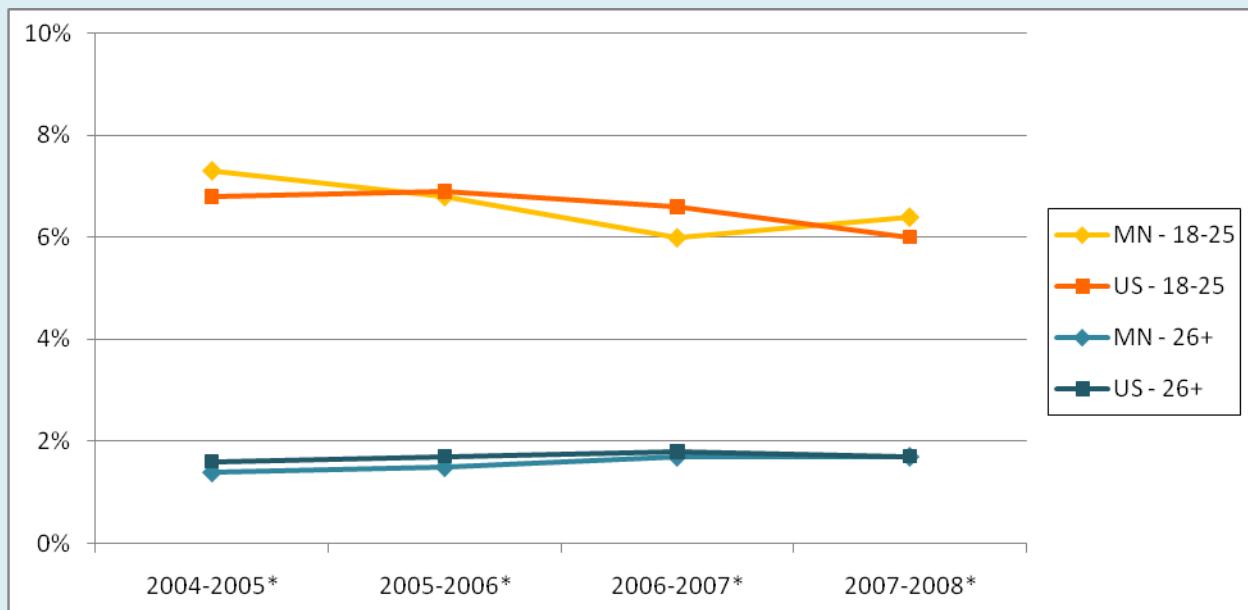
\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Cocaine

**Data Source:** NSDUH

**Adults Reporting Any Cocaine Use in the Past Year**



| Minnesota                            | 2004-2005*  | 2005-2006*  | 2006-2007*  | 2007-2008*  |
|--------------------------------------|-------------|-------------|-------------|-------------|
| <b>Total current cocaine use (%)</b> | <b>2.3%</b> | <b>2.3%</b> | <b>2.2%</b> | <b>2.3%</b> |
| Ages 12 thru 17                      | 1.8%        | 1.9%        | 1.7%        | 1.6%        |
| Ages 18 thru 25                      | 7.3%        | 6.8%        | 6.0%        | 6.4%        |
| Ages 26 and Over                     | 1.4%        | 1.5%        | 1.7%        | 1.7%        |
| United States                        | 2004-2005*  | 2005-2006*  | 2006-2007*  | 2007-2008*  |
| <b>Total current cocaine use (%)</b> | <b>2.3%</b> | <b>2.4%</b> | <b>2.4%</b> | <b>2.2%</b> |
| Ages 12 thru 17                      | 1.7%        | 1.6%        | 1.6%        | 1.4%        |
| Ages 18 thru 25                      | 6.8%        | 6.9%        | 6.6%        | 6.0%        |
| Ages 26 and Over                     | 1.6%        | 1.7%        | 1.8%        | 1.7%        |
| Minnesota:US**                       | 0.98        | 0.97        | 0.95        | 1.05        |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Crack/Cocaine

**Data Source:** MSS

***Students Reporting Crack/Cocaine Use within the Past 12 Months***

| Minnesota                  | 2001  | 2004  | 2007  | 2010  |
|----------------------------|-------|-------|-------|-------|
| Number reporting use       | 3,736 | 3,536 | 2,808 | 1,611 |
| Percent of all respondents | 5%    | 5%    | 4%    | 2%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

***Minnesota Students Reporting Crack/Cocaine Use within the Past 12 Months by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 992   | 3% |
|                       | Female                             | 619   | 2% |
|                       |                                    |       |    |
|                       | 9th                                | 647   | 2% |
|                       | 12th                               | 964   | 3% |
|                       |                                    |       |    |
| <b>Race/Ethnicity</b> | White                              | 1,055 | 2% |
|                       | African-American, African or Black | 115   | 4% |
|                       | American Indian                    | 32    | 4% |
|                       | Asian American/Pacific Islander    | 54    | 1% |
|                       | Hispanic/Latino                    | 113   | 4% |
|                       |                                    |       |    |
| <b>Region</b>         | Metro                              | 927   | 2% |
|                       | Non-metro                          | 684   | 2% |

***Minnesota Students Reporting Crack/Cocaine Use within the Past 12 Months by Gender and Grade, 2010***

|              |                 | Male  |    | Female |    |
|--------------|-----------------|-------|----|--------|----|
|              |                 | N (#) | %  | N (#)  | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 366   | 2% | 281    | 1% |
|              | 12th            | 626   | 4% | 338    | 2% |

**Race-Specific Data on Crack/Cocaine Use in the Past 12 Months**

| White students reporting crack/cocaine use by gender and grade, 2010                              |                 |       |     |        |    |
|---|-----------------|-------|-----|--------|----|
|   |                 | Male  |     | Female |    |
|   |                 | N (#) | %   | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 191   | 1%  | 175    | 1% |
|   | 12th            | 431   | 3%  | 258    | 2% |
| African-American, African or Black students reporting crack/cocaine use by gender and grade, 2010 |                 |       |     |        |    |
|   |                 | Male  |     | Female |    |
|   |                 | N (#) | %   | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 39    | 4%  | 13     | 1% |
|   | 12th            | 50    | 7%  | 13     | 2% |
| American Indian students reporting crack/cocaine use by gender and grade, 2010                    |                 |       |     |        |    |
|   |                 | Male  |     | Female |    |
|   |                 | N (#) | %   | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 5     | 2%  | 5      | 2% |
|   | 12th            | 16    | 10% | 6      | 5% |
| Asian American/Pacific Islander students reporting crack/cocaine use by gender and grade, 2010    |                 |       |     |        |    |
|   |                 | Male  |     | Female |    |
|   |                 | N (#) | %   | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 11    | 1%  | 10     | 1% |
|   | 12th            | 28    | 3%  | 5      | 1% |
| Hispanic/Latino students reporting crack/cocaine use by gender and grade, 2010                    |                 |       |     |        |    |
|   |                 | Male  |     | Female |    |
|   |                 | N (#) | %   | N (#)  | %  |
| Grade   | 9 <sup>th</sup> | 36    | 4%  | 26     | 3% |
|   | 12th            | 35    | 8%  | 16     | 3% |

**Minnesota Students Reporting Crack/Cocaine Use in the Past 12 Months by Region and Race/Ethnicity, 2010**

|                                    |  | Metro |    | Non-Metro |    |
|------------------------------------|--|-------|----|-----------|----|
| Race/Ethnicity                     |  | N (#) | %  | N (#)     | %  |
| White                              |  | 583   | 2% | 472       | 2% |
| African-American, African or Black |  | 85    | 3% | 30        | 6% |
| American Indian                    |  | 13    | 5% | 19        | 3% |
| Asian American/Pacific Islander    |  | 40    | 1% | 14        | 2% |
| Hispanic/Latino                    |  | 60    | 4% | 53        | 5% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Psychedelics

**Data Source:** MNSASU

***Adults Reporting Hallucinogen Use in the Past 12 Months***

| <b>Percent of Minnesota adults reporting hallucinogen use within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|---|---------------------------------|-------------|---------------|
|   |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 8.0%        | 4.3%          |
|   | Ages 21 thru 24                 | 4.3%        | 2.0%          |
|   | Ages 25 thru 44                 | 0.3%        | 0.1%          |
|   | Ages 45 thru 64                 | 0.0%        | 0.0%          |
|   | Ages 65 and over                | 0.0%        | 0.0%          |
| <b>Race/Ethnicity</b>   | White                           | 1.0%        | 0.5%          |
|   | African American or Black       | 0.0%        | 0.2%          |
|   | American Indian                 | 5.4%        | 0.0%          |
|   | Asian American/Pacific Islander | 0.0%        | 0.1%          |
|   | Hispanic/Latino                 | 0.6%        | 0.0%          |
|   | Bi-Racial/Multi-Racial          | 0.6%        | 0.7%          |
| <b>Region</b>   | Metro                           | 0.9%        | 0.6%          |
|   | Non-Metro                       | 1.0%        | 0.2%          |
|   | Total                           | 1.0%        | 0.4%          |

***Percent of Minnesota Adults Reporting Hallucinogen Use within the Past 12 Months by Race/Ethnicity and Region, 2004/2005***

|                       |                                 | <b>Metro*</b> | <b>Non-Metro</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> | White                           | 0.8%          | 0.6%             |
|                       | African American or Black       | 0.1%          | 0.0%             |
|                       | American Indian                 | 3.9%          | 0.2%             |
|                       | Asian American/Pacific Islander | 0.0%          | 0.0%             |
|                       | Hispanic/Latino                 | 0.4%          | 0.0%             |
|                       | Bi-Racial/Multi-Racial          | 0.6%          | 0.8%             |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Psychedelics

**Data Source:** MSS

***Students Reporting LSD, PCP or Other Psychedelics Use within the Past 12 Months***

| Minnesota                  | 2001  | 2004  | 2007  | 2010  |
|----------------------------|-------|-------|-------|-------|
| Number reporting use       | 4,276 | 2,931 | 3,011 | 2,483 |
| Percent of all respondents | 6%    | 4%    | 4%    | 3%    |

Note: Counties did not have to participate in the MSS each of the 4 years to be included in the counts presented here.

| <b>Minnesota students reporting Psychedelics use in the past 12 months by gender, grade, race/ethnicity, and region, 2010</b> |                                    |       |    |
|---|------------------------------------|-------|----|
|   |                                    | N (#) | %  |
| <b>Gender</b>   | Male                               | 1,563 | 4% |
|   | Female                             | 920   | 2% |
|   |                                    |       |    |
|   | 9th                                | 1,060 | 3% |
|   | 12th                               | 1,423 | 4% |
|   |                                    |       |    |
| <b>Race/Ethnicity</b>   | White                              | 1,744 | 3% |
|   | African-American, African or Black | 126   | 4% |
|   | American Indian                    | 57    | 7% |
|   | Asian American/Pacific Islander    | 79    | 2% |
|   | Hispanic/Latino                    | 119   | 4% |
|   |                                    |       |    |
| <b>Region</b>   | Metro                              | 1,456 | 4% |
|   | Non-metro                          | 1,027 | 3% |

***Minnesota Students Reporting Psychedelics Use in the Past 12 Months by Gender and Grade, 2010***

|              |                 | <b>Male</b> |    | <b>Female</b> |    |
|--------------|-----------------|-------------|----|---------------|----|
|              |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 593         | 3% | 467           | 2% |
|              | 12th            | 970         | 6% | 453           | 3% |

***Minnesota Students Reporting Psychedelics Use in the Past 12 Months by Gender and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>9th grade</b> |    | <b>12th grade</b> |    |
|------------------------------------|------------------|----|-------------------|----|
|                                    | N (#)            | %  | N (#)             | %  |
| White                              | 655              | 2% | 1,089             | 4% |
| African-American, African or Black | 60               | 3% | 66                | 5% |
| American Indian                    | 34               | 6% | 23                | 8% |
| Asian American/Pacific Islander    | 38               | 2% | 41                | 2% |
| Hispanic/Latino                    | 68               | 4% | 51                | 5% |

***Race-Specific Data on Psychedelics Use in the Past 12 Months***

| <b>White students reporting Psychedelics use by gender and grade, 2010</b>                              |                 |             |     |               |    |
|---|-----------------|-------------|-----|---------------|----|
|   |                 | <b>Male</b> |     | <b>Female</b> |    |
|   |                 | N (#)       | %   | N (#)         | %  |
| <b>Grade</b>  | 9 <sup>th</sup> | 338         | 2%  | 317           | 2% |
|   | 12th            | 736         | 6%  | 353           | 3% |
| <b>African-American, African or Black students reporting Psychedelics use by gender and grade, 2010</b> |                 |             |     |               |    |
|   |                 | <b>Male</b> |     | <b>Female</b> |    |
|   |                 | N (#)       | %   | N (#)         | %  |
| <b>Grade</b>  | 9th             | 50          | 5%  | 10            | 1% |
|   | 12th            | 54          | 8%  | 12            | 2% |
| <b>American Indian students reporting Psychedelics use by gender and grade, 2010</b>                    |                 |             |     |               |    |
|   |                 | <b>Male</b> |     | <b>Female</b> |    |
|   |                 | N (#)       | %   | N (#)         | %  |
| <b>Grade</b>  | 9th             | 19          | 6%  | 15            | 6% |
|   | 12th            | 16          | 11% | 7             | 5% |
| <b>Asian American/Pacific Islander students reporting Psychedelics use by gender and grade, 2010</b>    |                 |             |     |               |    |
|   |                 | <b>Male</b> |     | <b>Female</b> |    |
|   |                 | N (#)       | %   | N (#)         | %  |
| <b>Grade</b>  | 9 <sup>th</sup> | 20          | 2%  | 18            | 2% |
|   | 12th            | 31          | 4%  | 10            | 1% |
| <b>Hispanic/Latino students reporting Psychedelics use by gender and grade, 2010</b>                    |                 |             |     |               |    |
|   |                 | <b>Male</b> |     | <b>Female</b> |    |
|   |                 | N (#)       | %   | N (#)         | %  |
| <b>Grade</b>  | 9 <sup>th</sup> | 47          | 5%  | 21            | 2% |
|   | 12th            | 36          | 8%  | 15            | 3% |

***Minnesota Students Reporting Psychedelics Use in the Past 12 Months by Region and Race/Ethnicity, 2010***

|                                    |  | <b>Metro</b> |     | <b>Non-Metro</b> |    |
|------------------------------------|--|--------------|-----|------------------|----|
| <b>Race/Ethnicity</b>              |  | N (#)        | %   | N (#)            | %  |
| White                              |  | 992          | 4%  | 752              | 3% |
| African-American, African or Black |  | 91           | 3%  | 35               | 7% |
| American Indian                    |  | 25           | 10% | 32               | 6% |
| Asian American/Pacific Islander    |  | 61           | 2%  | 18               | 3% |
| Hispanic/Latino                    |  | 69           | 4%  | 50               | 5% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Heroin

**Data Source:** MNSASU

***Adults Reporting Heroin Use in the Past 12 Months***

| <b>Percent of Minnesota adults reporting heroin use within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |             |               |
|---|---------------------------------|-------------|---------------|
|   |                                 | <b>MALE</b> | <b>FEMALE</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 0.0%        | 1.1%          |
|   | Ages 21 thru 24                 | 0.0%        | 0.0%          |
|   | Ages 25 thru 44                 | 0.1%        | 0.2%          |
|   | Ages 45 thru 64                 | 0.0%        | 0.0%          |
|   | Ages 65 and over                | 0.0%        | 0.0%          |
|   |                                 |             |               |
| <b>Race/Ethnicity</b>   | White                           | 0.0%        | 0.2%          |
|   | African American or Black       | 0.0%        | 0.1%          |
|   | American Indian                 | 0.0%        | 0.0%          |
|   | Asian American/Pacific Islander | 0.0%        | 0.0%          |
|   | Hispanic/Latino                 | 0.0%        | 0.0%          |
|   | Bi-Racial/Multi-Racial          | 0.0%        | 0.0%          |
|   |                                 |             |               |
| <b>Region</b>   | Metro                           | 0.0%        | 0.2%          |
|   | Non-Metro                       | 0.0%        | 0.1%          |
|   | Total                           | 0.0%        | 0.1%          |

**Percent of Minnesota Adults Reporting Heroin Use within the Past 12 Months by Race/Ethnicity and Region, 2004/2005**

|                       |                                 | <b>Metro*</b> | <b>Non-Metro</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> | White                           | 0.1%          | 0.1%             |
|                       | African American or Black       | 0.0%          | 0.0%             |
|                       | American Indian                 | 0.0%          | 0.0%             |
|                       | Asian American/Pacific Islander | 0.0%          | 0.0%             |
|                       | Hispanic/Latino                 | 0.0%          | 0.0%             |
|                       | Bi-Racial/Multi-Racial          | 0.0%          | 0.0%             |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Heroin

**Data Source:** MSS

***Students Reporting Heroin Use within the Past 12 Months***

| Minnesota                  | 2007 | 2010 |
|----------------------------|------|------|
| Number reporting use       | 966  | 800  |
| Percent of all respondents | 1%   | 1%   |

Note: Counties did not have to participate in the MSS each of the 2 years to be included in the counts presented here.

***Minnesota Students Reporting Heroin Use in the Past 12 Months by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 571   | 2% |
|                       | Female                             | 229   | 1% |
|                       | Total                              | 800   | 1% |
|                       |                                    |       |    |
|                       | 9th                                | 381   | 1% |
|                       | 12th                               | 419   | 1% |
|                       |                                    |       |    |
| <b>Race/Ethnicity</b> | White                              | 442   | 1% |
|                       | African-American, African or Black | 100   | 3% |
|                       | American Indian                    | 18    | 2% |
|                       | Asian American/Pacific Islander    | 42    | 1% |
|                       | Hispanic/Latino                    | 61    | 2% |
|                       |                                    |       |    |
| <b>Region</b>         | Metro                              | 480   | 1% |
|                       | Non-metro                          | 320   | 1% |

***Minnesota Students Reporting Heroin Use in the Past 12 Months by Gender and Grade, 2010***

|              |                 | Male  |    | Female |    |
|--------------|-----------------|-------|----|--------|----|
|              |                 | N (#) | %  | N (#)  | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 250   | 1% | 131    | 1% |
|              | 12th            | 321   | 2% | 98     | 1% |

***Race-Specific Data on Heroin Use in the Past 12 Months, 2010***

| <b>White students reporting Heroin use by gender and grade, 2010</b>                              |                 |             |    |               |    |
|---|-----------------|-------------|----|---------------|----|
|   |                 | <b>Male</b> |    | <b>Female</b> |    |
|   |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b>  | 9 <sup>th</sup> | 121         | 1% | 76            | 0% |
|   | 12th            | 186         | 1% | 59            | 0% |
| <b>African-American, African or Black students reporting Heroin use by gender and grade, 2010</b> |                 |             |    |               |    |
|   |                 | <b>Male</b> |    | <b>Female</b> |    |
|   |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b>  | 9th             | 40          | 4% | 8             | 1% |
|   | 12th            | 38          | 6% | 14            | 2% |
| <b>American Indian students reporting Heroin use by gender and grade, 2010</b>                    |                 |             |    |               |    |
|   |                 | <b>Male</b> |    | <b>Female</b> |    |
|   |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b>  | 9th             | 3           | 1% | 3             | 1% |
|   | 12th            | 11          | 7% | 1             | 1% |
| <b>Asian American/Pacific Islander students reporting Heroin use by gender and grade, 2010</b>    |                 |             |    |               |    |
|   |                 | <b>Male</b> |    | <b>Female</b> |    |
|   |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b>  | 9th             | 11          | 1% | 5             | 0% |
|   | 12th            | 21          | 3% | 5             | 1% |
| <b>Hispanic/Latino students reporting Heroin use by gender and grade, 2010</b>                    |                 |             |    |               |    |
|   |                 | <b>Male</b> |    | <b>Female</b> |    |
|   |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b>  | 9th             | 20          | 2% | 12            | 1% |
|   | 12th            | 23          | 5% | 6             | 1% |

***Minnesota Students Reporting Heroin Use in the Past 12 Months by Region and Race/Ethnicity, 2010***

|                                    |  | <b>Metro</b> |    | <b>Non-Metro</b> |    |
|------------------------------------|--|--------------|----|------------------|----|
| <b>Race/Ethnicity</b>              |  | N (#)        | %  | N (#)            | %  |
| White                              |  | 243          | 1% | 199              | 1% |
| African-American, African or Black |  | 78           | 3% | 22               | 4% |
| American Indian                    |  | 6            | 2% | 12               | 2% |
| Asian American/Pacific Islander    |  | 29           | 1% | 13               | 2% |
| Hispanic/Latino                    |  | 37           | 2% | 24               | 2% |

## Prescription Drug Abuse

**About the Indicator:** Illicit drug use is measured here using reported 12 month use of prescription drugs for the purpose of getting high (use other than that indicated by one's own health care provider):

- Any prescription drugs taken only to get high—6<sup>th</sup> graders
- Prescription pain relievers—adults, 9<sup>th</sup> graders and 12<sup>th</sup> graders
- Prescription stimulants—9<sup>th</sup> graders and 12<sup>th</sup> graders
- Prescription ADHD or ADD drugs—9<sup>th</sup> graders and 12<sup>th</sup> graders
- Prescription tranquilizers—adults, 9<sup>th</sup> graders and 12<sup>th</sup> graders

**Data Source(s):** Adults: Minnesota Survey of Adult Substance Use (MNSASU) and the National Survey on Drug Use and Health (NSDUH)

Youth: Minnesota Student Survey (MSS)

### Section Summary:

Adults:

- Non-medical use of prescription pain killers among Minnesota adults has gradually increased, from 10.6% in 2004/2005 to 12.7% in 2007/2008 for 18-25 year olds and from 2.9% in 3.4% for adults age 26 and older.

Youth:

- Minnesota 9<sup>th</sup> grade and 12<sup>th</sup> grade students were more likely to report abuse of pain relievers than any other type of prescription drug.
- At the state-level, there was no increase in reported abuse of prescription drugs among youth from 2007 to 2010.

**Substance:** Any Prescription Drugs

**Data Source:** MSS

***6<sup>th</sup> Grade Students Reporting Use of Any Prescription Drugs, Not Prescribed by Their Doctor or that They Took Only to Get High***

| Minnesota                  | 2007 | 2010 |
|----------------------------|------|------|
| Number reporting abuse     | 519  | 507  |
| Percent of all respondents | 1%   | 1%   |

Note: Counties did not have to participate in the MSS each of the 2 years to be included in the counts presented here.

***Minnesota 6<sup>th</sup> Graders Reporting Abuse of Any Prescription Drugs in the Past 12 Months by Gender, Grade, Race/Ethnicity, and Region, 2010***

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 282   | 1% |
|                       | Female                             | 225   | 1% |
|                       | Total                              | 507   | 1% |
| <b>Race/Ethnicity</b> | White                              | 243   | 1% |
|                       | African-American, African or Black | 49    | 2% |
|                       | American Indian                    | 24    | 3% |
|                       | Asian American/Pacific Islander    | 15    | 1% |
|                       | Hispanic/Latino                    | 65    | 3% |
| <b>Region</b>         | Metro                              | 282   | 1% |
|                       | Non-metro                          | 225   | 1% |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Prescription Pain Relievers

**Data Source:** MNSASU

***Adults Reporting Any Use of Prescription Pain Relievers, Not Prescribed for them by their Doctor, in the Past 12 Months***

| <b>Percent of Minnesota adults reporting abuse of prescription pain relievers within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |       |        |
|---|---------------------------------|-------|--------|
|   |                                 | Male  | Female |
| <b>Age</b>  | Ages 18 thru 20                 | 8.0%  | 10.1%  |
|   | Ages 21 thru 24                 | 9.6%  | 5.6%   |
|   | Ages 25 thru 44                 | 2.3%  | 1.8%   |
|   | Ages 45 thru 64                 | 0.8%  | 0.6%   |
|   | Ages 65 and over                | 1.1%  | 0.6%   |
|   |                                 |       |        |
| <b>Race/Ethnicity</b>   | White                           | 2.3%  | 1.6%   |
|   | African American or Black       | 2.8%  | 5.7%   |
|   | American Indian                 | 15.8% | 9.8%   |
|   | Asian American/Pacific Islander | 2.2%  | 0.8%   |
|   | Hispanic/Latino                 | 3.7%  | 2.8%   |
|   | Bi-Racial/Multi-Racial          | 14.0% | 3.3%   |
|   |                                 |       |        |
| <b>Region</b>   | Metro                           | 3.0%  | 2.5%   |
|   | Non-Metro                       | 2.1%  | 1.3%   |
|   | Total                           | 2.8%  | 1.7%   |

***Percent of Minnesota Adults Reporting Abuse of Prescription Pain Relievers within the Past 12 Months by Race/Ethnicity and Region, 2004/2005***

|                       |                                 | Metro* | Non-Metro |
|-----------------------|---------------------------------|--------|-----------|
| <b>Race/Ethnicity</b> | White                           | 2.5%   | 1.4%      |
|                       | African American or Black       | 3.6%   | 17.9%     |
|                       | American Indian                 | 18.3%  | 6.0%      |
|                       | Asian American/Pacific Islander | 1.8%   | 0.0%      |
|                       | Hispanic/Latino                 | 2.0%   | 6.4%      |
|                       | Bi-Racial/Multi-Racial          | 7.1%   | 11.0%     |

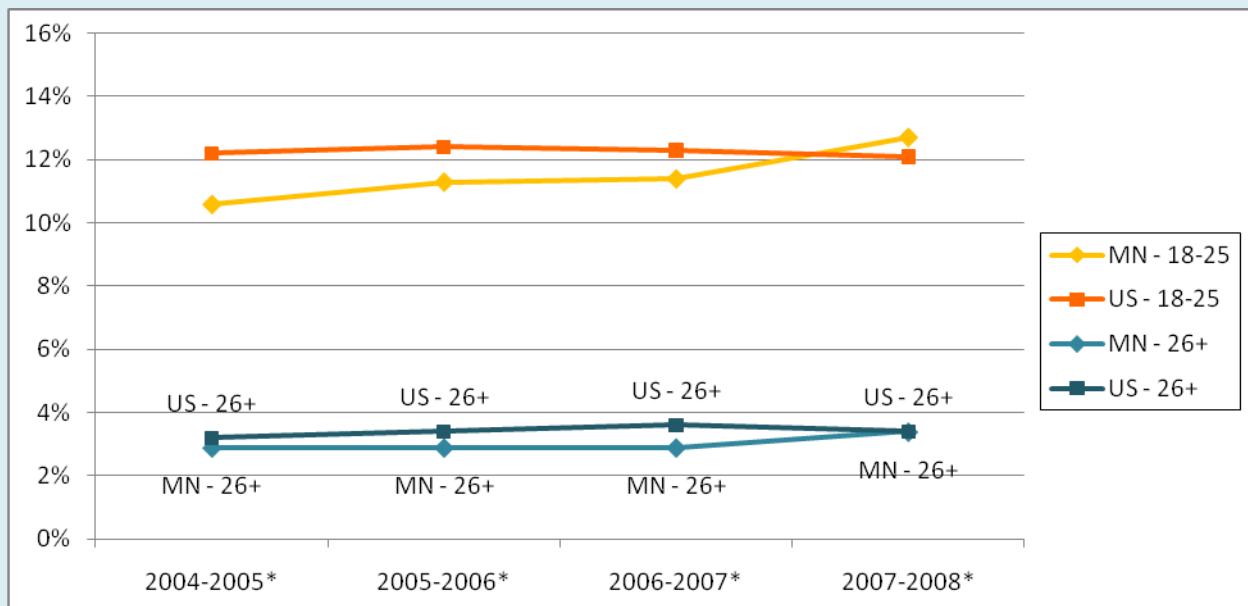
\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Prescription Pain Relievers

**Data Source:** NSDUH

**Adults Reporting Non-Medical Use of Pain Killers in the Past Year**



| Minnesota                                | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
|--|-------------------|-------------------|-------------------|-------------------|
| <b>Total current pain killer use (%)</b> | <b>4.3%</b>       | <b>4.4%</b>       | <b>4.4%</b>       | <b>4.9%</b>       |
| Ages 12 thru 17                          | 6.2%              | 6.3%              | 5.8%              | 6.5%              |
| Ages 18 thru 25                          | 10.6%             | 11.3%             | 11.4%             | 12.7%             |
| Ages 26 and Over                         | 2.9%              | 2.9%              | 2.9%              | 3.4%              |
| United States                            | 2004-2005*        | 2005-2006*        | 2006-2007*        | 2007-2008*        |
| <b>Total current pain killer use (%)</b> | <b>4.8%</b>       | <b>5.0%</b>       | <b>5.1%</b>       | <b>4.9%</b>       |
| Ages 12 thru 17                          | 7.1%              | 7.0%              | 6.9%              | 6.6%              |
| Ages 18 thru 25                          | 12.2%             | 12.4%             | 12.3%             | 12.1%             |
| Ages 26 and Over                         | 3.2%              | 3.4%              | 3.6%              | 3.4%              |
| <b>Total current pain killer use (%)</b> | <b>2004-2005*</b> | <b>2005-2006*</b> | <b>2006-2007*</b> | <b>2007-2008*</b> |
| <b>MN:US**</b>                           | <b>0.89</b>       | <b>0.88</b>       | <b>0.85</b>       | <b>1.00</b>       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question. Estimates are based on a survey-weighted hierarchical Bayes estimation approach

\* Percentages are presented for the 2 years combined

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

**Substance:** Prescription Pain Relievers

**Data Source:** MSS

**Students Reporting Any Use of Prescription Pain Relievers, Not Prescribed for them by their Doctor, in the Past 12 Months**

| Minnesota                  | 2007  | 2010  |
|----------------------------|-------|-------|
| Number reporting abuse     | 4,019 | 3,631 |
| Percent of all respondents | 5%    | 5%    |

Note: Counties did not have to participate in the MSS each of the 2 years to be included in the counts presented here.

| <b>Minnesota students reporting abuse of Pain Relievers in the past 12 months by gender, grade, race/ethnicity, and region, 2010</b> |                                    |       |    |
|--|------------------------------------|-------|----|
|  |                                    | N (#) | %  |
| <b>Gender</b>  | Male                               | 1,952 | 5% |
|  | Female                             | 1,679 | 4% |
|  | Total                              | 3,631 | 5% |
|  |                                    |       |    |
|  | 9th                                | 1,497 | 4% |
|  | 12th                               | 2,134 | 6% |
|  |                                    |       |    |
| <b>Race/Ethnicity</b>  | White                              | 2,699 | 5% |
|  | African-American, African or Black | 145   | 4% |
|  | American Indian                    | 76    | 9% |
|  | Asian American/Pacific Islander    | 77    | 2% |
|  | Hispanic/Latino                    | 133   | 5% |
|  |                                    |       |    |
| <b>Region</b>  | Metro                              | 2,051 | 5% |
|  | Non-metro                          | 1,580 | 5% |

**Minnesota Students Reporting Abuse of Pain Relievers in the Past 12 Months, by Gender and Grade, 2010**

|              |                 | <b>Male</b> |    | <b>Female</b> |    |
|--------------|-----------------|-------------|----|---------------|----|
|              |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 668         | 3% | 829           | 4% |
|              | 12th            | 1,284       | 8% | 850           | 5% |

**Minnesota Students Reporting Abuse of Pain Relievers in the Past 12 Months, by Grade and Race/Ethnicity, 2010**

| <b>Race/Ethnicity</b>              | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|------------------|----------|-------------------|----------|
|                                    | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| White                              | 999              | 3%       | 1,700             | 6%       |
| African-American, African or Black | 70               | 4%       | 75                | 6%       |
| American Indian                    | 38               | 7%       | 38                | 14%      |
| Asian American/Pacific Islander    | 32               | 1%       | 45                | 3%       |
| Hispanic/Latino                    | 73               | 4%       | 60                | 6%       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Prescription ADD/ADHD Drugs

**Data Source:** MSS

***Students Reporting Use of ADD/ADHD Drugs, Not Prescribed for them by their Doctor, in the Past 12 Months***

| Minnesota                  | 2007  | 2010  |
|----------------------------|-------|-------|
| Number reporting abuse     | 3,327 | 3,213 |
| Percent of all respondents | 4%    | 4%    |

Note: Counties did not have to participate in the MSS each of the 2 years to be included in the counts presented here.

| <b>Minnesota students reporting abuse of ADD/ADHD drugs in the past 12 months by gender, grade, race/ethnicity, and region, 2010</b> |                                    |       |    |
|--|------------------------------------|-------|----|
|  |                                    | N (#) | %  |
| <b>Gender</b>  | Male                               | 1,653 | 5% |
|  | Female                             | 1,560 | 4% |
|  | Total                              | 3,213 | 4% |
|  | 9th                                | 1,423 | 3% |
|  | 12th                               | 1,790 | 5% |
|  |                                    |       |    |
| <b>Race/Ethnicity</b>  | White                              | 2,384 | 4% |
|  | African-American, African or Black | 139   | 4% |
|  | American Indian                    | 62    | 8% |
|  | Asian American/Pacific Islander    | 68    | 2% |
|  | Hispanic/Latino                    | 126   | 5% |
| <b>Region</b>  | Metro                              | 1,865 | 5% |
|  | Non-metro                          | 1,348 | 4% |

***Minnesota Students Reporting Abuse of ADD/ADHD Drugs in the Past 12 Months by Gender and Grade, 2010***

|              |                 | <b>Male</b> |    | <b>Female</b> |    |
|--------------|-----------------|-------------|----|---------------|----|
|              |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 637         | 3% | 786           | 4% |
|              | 12th            | 1,016       | 6% | 774           | 5% |

***Minnesota Students Reporting Abuse of ADD/ADHD Drugs in the Past 12 Months by Grade and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|------------------|----------|-------------------|----------|
|                                    | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| White                              | 966              | 3%       | 1,418             | 5%       |
| African-American, African or Black | 67               | 4%       | 72                | 5%       |
| American Indian                    | 37               | 7%       | 25                | 9%       |
| Asian American/Pacific Islander    | 30               | 1%       | 38                | 2%       |
| Hispanic/Latino                    | 71               | 4%       | 55                | 6%       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Prescription Stimulants or Diet Pills

**Data Source:** MSS

***Students Reporting Use of Stimulants or Diet Pills, Not Prescribed by their Doctor, within the Past 12 Months***

| Minnesota                  | 2007  | 2010  |
|----------------------------|-------|-------|
| Number reporting abuse     | 2,434 | 1,998 |
| Percent of all respondents | 3%    | 3%    |

Note: Counties did not have to participate in the MSS each of the 2 years to be included in the counts presented here.

**Minnesota students reporting stimulant or diet pill abuse in the past 12 months by gender, grade, race/ethnicity, and region, 2010**

|                       |                                    | N (#) | %  |
|-----------------------|------------------------------------|-------|----|
| <b>Gender</b>         | Male                               | 951   | 3% |
|                       | Female                             | 1,047 | 3% |
|                       | Total                              | 1,998 | 3% |
|                       | 9th                                | 1,092 | 3% |
|                       | 12th                               | 906   | 3% |
| <b>Race/Ethnicity</b> | White                              | 1,342 | 2% |
|                       | African-American, African or Black | 126   | 4% |
|                       | American Indian                    | 43    | 5% |
|                       | Asian American/Pacific Islander    | 60    | 2% |
|                       | Hispanic/Latino                    | 111   | 4% |
| <b>Region</b>         | Metro                              | 1,106 | 3% |
|                       | Non-metro                          | 892   | 3% |

***Minnesota Students Reporting Stimulant or Diet Pill Abuse in the Past 12 Months, by Gender and Grade, 2010***

|              |                 | <b>Male</b> |    | <b>Female</b> |    |
|--------------|-----------------|-------------|----|---------------|----|
|              |                 | N (#)       | %  | N (#)         | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 449         | 2% | 643           | 3% |
|              | 12th            | 502         | 3% | 404           | 2% |

***Minnesota Students Reporting Stimulant or Diet Pill Abuse in the Past 12 Months, by Grade and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|------------------|----------|-------------------|----------|
|                                    | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| White                              | 691              | 2%       | 651               | 2%       |
| African-American, African or Black | 62               | 3%       | 64                | 5%       |
| American Indian                    | 24               | 5%       | 19                | 7%       |
| Asian American/Pacific Islander    | 30               | 1%       | 30                | 2%       |
| Hispanic/Latino                    | 71               | 4%       | 40                | 4%       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Prescription Tranquilizers and Sedatives

**Data Source:** MNSASU

***Adults Reporting Any Use of Tranquilizers or Sedatives, Not Prescribed for them by their Doctor, in the Past 12 Months***

| <b>Percent of Minnesota adults reporting abuse of prescription tranquilizers or sedatives within the past 12 months by gender, age, race/ethnicity, and region, 2004/2005</b> |                                 |              |                |
|---|---------------------------------|--------------|----------------|
|   |                                 | <b>Males</b> | <b>Females</b> |
| <b>Age</b>  | Ages 18 thru 20                 | 12.6%        | 10.3%          |
|   | Ages 21 thru 24                 | 10.5%        | 6.7%           |
|   | Ages 25 thru 44                 | 6.2%         | 4.0%           |
|   | Ages 45 thru 64                 | 7.6%         | 4.4%           |
|   | Ages 65 and over                | 1.1%         | 1.6%           |
|   |                                 |              |                |
| <b>Race/Ethnicity</b>   | White                           | 6.8%         | 4.1%           |
|   | African American or Black       | 1.8%         | 8.6%           |
|   | American Indian                 | 18.5%        | 9.2%           |
|   | Asian American/Pacific Islander | 0.6%         | 1.5%           |
|   | Hispanic/Latino                 | 8.6%         | 4.4%           |
|   | Bi-Racial/Multi-Racial          | 19.3%        | 4.5%           |
|   |                                 |              |                |
| <b>Region</b>   | Metro                           | 7.3%         | 5.1%           |
|   | Non-Metro                       | 6.0%         | 3.3%           |
|   | Total                           | 6.7%         | 4.3%           |

***Percent of Minnesota Adults Reporting Abuse of Prescription Tranquilizers or Sedatives within the Past 12 Months by Race/Ethnicity and Region, 2004/2005***

|                       |                                 | <b>Metro*</b> | <b>Non-Metro</b> |
|-----------------------|---------------------------------|---------------|------------------|
| <b>Race/Ethnicity</b> | White                           | 6.5%          | 4.3%             |
|                       | African American or Black       | 4.3%          | 25.3%            |
|                       | American Indian                 | 10.5%         | 14.8%            |
|                       | Asian American/Pacific Islander | 1.2%          | 0.1%             |
|                       | Hispanic/Latino                 | 5.3%          | 9.3%             |
|                       | Bi-Racial/Multi-Racial          | 10.3%         | 14.5%            |

\*Metro refers to the seven-county metro area

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Prescription Tranquillizers and Sedatives

**Data Source:** MSS

***Students Reporting Use of Tranquillizers or Sedatives, Not Prescribed for them by their Doctor, within the Past 12 Months***

| Minnesota                  | 2007  | 2010  |
|----------------------------|-------|-------|
| Number reporting abuse     | 1,826 | 1,791 |
| Percent of all respondents | 2%    | 2%    |

Note: Counties did not have to participate in the MSS each of the 2 years to be included in the counts presented here.

| Minnesota students reporting tranquilizer or sedative use in the past 12 months by gender, grade, race/ethnicity, and region, 2010 |                                    |       |    |
|--|------------------------------------|-------|----|
|  |                                    | N (#) | %  |
| <b>Gender</b>  | Male                               | 1,038 | 3% |
|  | Female                             | 753   | 2% |
|  | Total                              | 1,791 | 2% |
|  | 9th                                | 723   | 2% |
|  | 12th                               | 1,068 | 3% |
|  |                                    |       |    |
| <b>Race/Ethnicity</b>  | White                              | 1,237 | 2% |
|  | African-American, African or Black | 105   | 3% |
|  | American Indian                    | 37    | 5% |
|  | Asian American/Pacific Islander    | 50    | 1% |
|  | Hispanic/Latino                    | 80    | 3% |
| <b>Region</b>  | Metro                              | 1,015 | 3% |
|  | Non-metro                          | 776   | 2% |

***Minnesota Students Reporting Tranquillizer or Sedative Abuse in the Past 12 Months, by Gender and Grade, 2010***

|              |                 | Male  |    | Female |    |
|--------------|-----------------|-------|----|--------|----|
|              |                 | N (#) | %  | N (#)  | %  |
| <b>Grade</b> | 9 <sup>th</sup> | 351   | 2% | 372    | 2% |
|              | 12th            | 687   | 4% | 381    | 2% |

***Minnesota Students Reporting Tranquilizer or Sedative Abuse in the Past 12 Months, by Grade and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>9th grade</b> |          | <b>12th grade</b> |          |
|------------------------------------|------------------|----------|-------------------|----------|
|                                    | <b>N (#)</b>     | <b>%</b> | <b>N (#)</b>      | <b>%</b> |
| White                              | 445              | 1%       | 792               | 3%       |
| African-American, African or Black | 49               | 3%       | 56                | 4%       |
| American Indian                    | 15               | 3%       | 22                | 8%       |
| Asian American/Pacific Islander    | 16               | 1%       | 34                | 2%       |
| Hispanic/Latino                    | 43               | 2%       | 37                | 4%       |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Age at First Use of Other Illicit Drugs, Other than Marijuana

**About the Indicator:** Prevention planners may use data about age of first use as one factor in determining when to initiate prevention programs, policies, and practices. In addition, these data are valuable for reporting purposes. Some grantees are required to report age of first use as one their GPRA measures.

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- In 2010, males were as likely as females (3%) to report first using drugs, other than marijuana, at the age of 13 or younger.
- Average age at first use of drugs, other than marijuana, was the same in the seven-county metro area as in the non-metro counties.

**Substance:** Illicit Drugs

**Data Source:** MSS

**Age at Which Students Reported First Using Drugs, Other than Marijuana**

| <b>Minnesota students reporting age they first using other drugs by gender, 2010</b> |        |              |          |
|--|--------|--------------|----------|
|  |        | <b>N (#)</b> | <b>%</b> |
| 10 years old or younger  | Male   | 732          | 1.2%     |
|  | Female | 445          | 0.7%     |
| 11 years old   | Male   | 369          | 0.6%     |
|  | Female | 301          | 0.5%     |
| 12 years old   | Male   | 374          | 0.6%     |
|  | Female | 298          | 0.5%     |
| 13 years old   | Male   | 412          | 0.7%     |
|  | Female | 492          | 0.8%     |
| 14 years old   | Male   | 659          | 1.1%     |
|  | Female | 966          | 1.6%     |
| 15 years old   | Male   | 635          | 1.1%     |
|  | Female | 638          | 1.0%     |
| 16 years old   | Male   | 616          | 1.0%     |
|  | Female | 556          | 0.9%     |
| 17 years old or older  | Male   | 642          | 1.1%     |
|  | Female | 506          | 0.8%     |

**Minnesota Students Reporting they First Used Drugs, Other than Marijuana, at Age 13 or Younger, by Gender, Grade, Race/Ethnicity, and Region, 2010**

|                |                                    | <b>N (#)</b> | <b>%</b> |
|----------------|------------------------------------|--------------|----------|
| Gender         | Male                               | 1,887        | 3%       |
|                | Female                             | 1,536        | 3%       |
|                | Total                              | 3,423        | 3%       |
| Grade          | 6th                                | 1,241        | 3%       |
|                | 9th                                | 1,509        | 4%       |
|                | 12th                               | 673          | 2%       |
| Race/Ethnicity | White                              | 2,870        | 2%       |
|                | African-American, African or Black | 417          | 4%       |
|                | American Indian                    | 497          | 6%       |
|                | Asian American/Pacific Islander    | 286          | 3%       |
|                | Hispanic/Latino                    | 478          | 6%       |
| Region         | Metro                              | 1,882        | 3%       |
|                | Non-Metro                          | 1,541        | 3%       |

**Average Age Minnesota students First Used Drugs, Other than Marijuana, by Gender and Grade, 2010**

|                       |                        | Male | Female |
|-----------------------|------------------------|------|--------|
| <b>7-County Metro</b> | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 13   | 13     |
|                       | 12 <sup>th</sup> Grade | 15   | 15     |
| <b>Non-metro</b>      | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 13   | 13     |
|                       | 12 <sup>th</sup> Grade | 15   | 15     |
| <b>Total</b>          | 6 <sup>th</sup> Grade  | 11   | 11     |
|                       | 9 <sup>th</sup> Grade  | 13   | 13     |
|                       | 12 <sup>th</sup> Grade | 15   | 15     |

Note: Age category options on the survey include "10 or younger" and "17 or older". To calculate an average, these categories were set at 10 and 17 respectively. Average age for 6<sup>th</sup> graders will be lower than for 9<sup>th</sup> graders, and 9<sup>th</sup> lower than 12<sup>th</sup>, reflecting the ages of students in each grade. Average age was calculated only for those students who reported ever trying any illicit drugs other than marijuana.

## 9: Illicit Drug Use in Minnesota: Consequences

### Drug-Related Deaths

**About the Indicator:** Statistics on drug-related mortality refer to acute deaths directly related to drug consumption or “overdoses.”

The International Classification of Diseases (ICD-10) measures all deaths, including those exclusively related to drug consumption.

**Data Source(s):** CDC Wonder

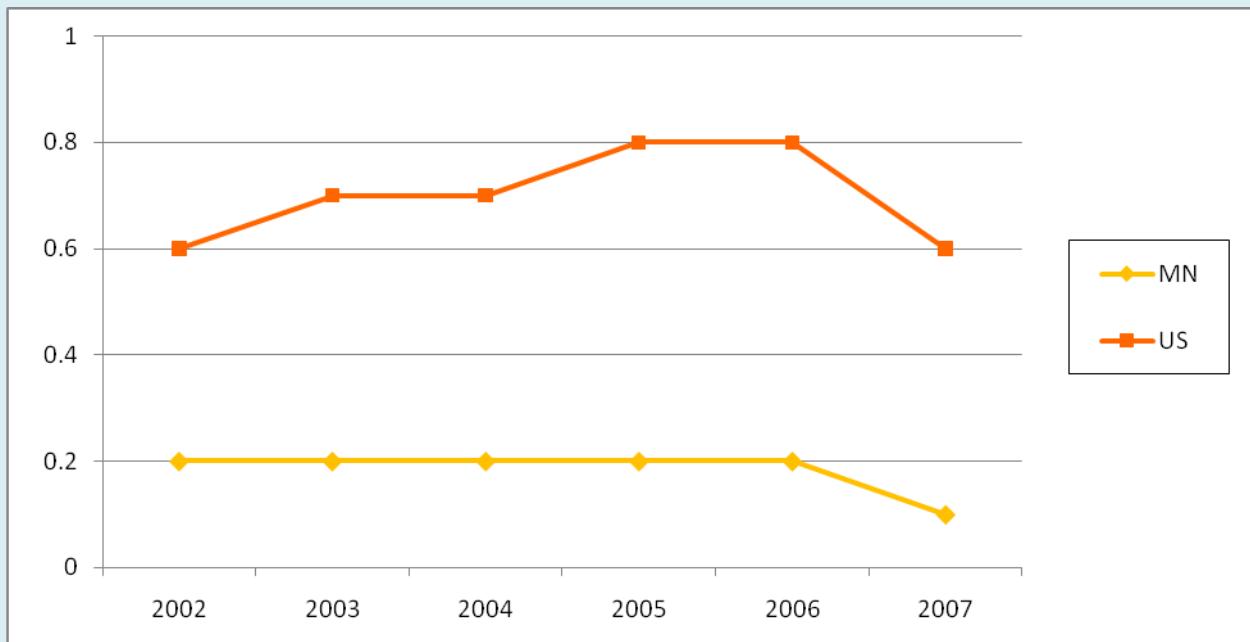
#### **Section Summary:**

- Minnesota’s drug-related death rate has been consistently lower than the national average.

**Substance:** Illicit Drugs

**Data Source:** CDC Wonder

***Drug-Related Deaths per 100,000 Population***



| Minnesota                   | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  |
|-----------------------------|-------|-------|-------|-------|-------|-------|
| Drug-related deaths         | 8     | 9     | 12    | 12    | 10    | 7     |
| Rate per 100,000 population | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   |
| United States               | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  |
| Drug-related deaths         | 1,733 | 1,896 | 2,021 | 2,229 | 2,310 | 1,859 |
| Rate per 100,000 population | 0.6   | 0.7   | 0.7   | 0.8   | 0.8   | 0.6   |
|                             | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  |
| MN:US                       | 0.33  | 0.29  | 0.29  | 0.25  | 0.25  | 0.17  |

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

## HIV/AIDS Cases Involving Intravenous Drug Use

**About the Indicator:** The Minnesota HIV Surveillance Report describes the number of new occurrences and the prevalence of cases of reported HIV infections and AIDS in Minnesota to the Minnesota Department of Public Health by person, place, race/ethnicity, time, and mode of exposure. Such data provide information about where and among whom HIV transmission is likely occurring. This indicator specifically relates to the number of cases of Minnesotans living with HIV and AIDS for whom the mode of exposure was intravenous drug use.

**Data Source(s):** HIV/AIDS Surveillance Reports, Minnesota Department of Health

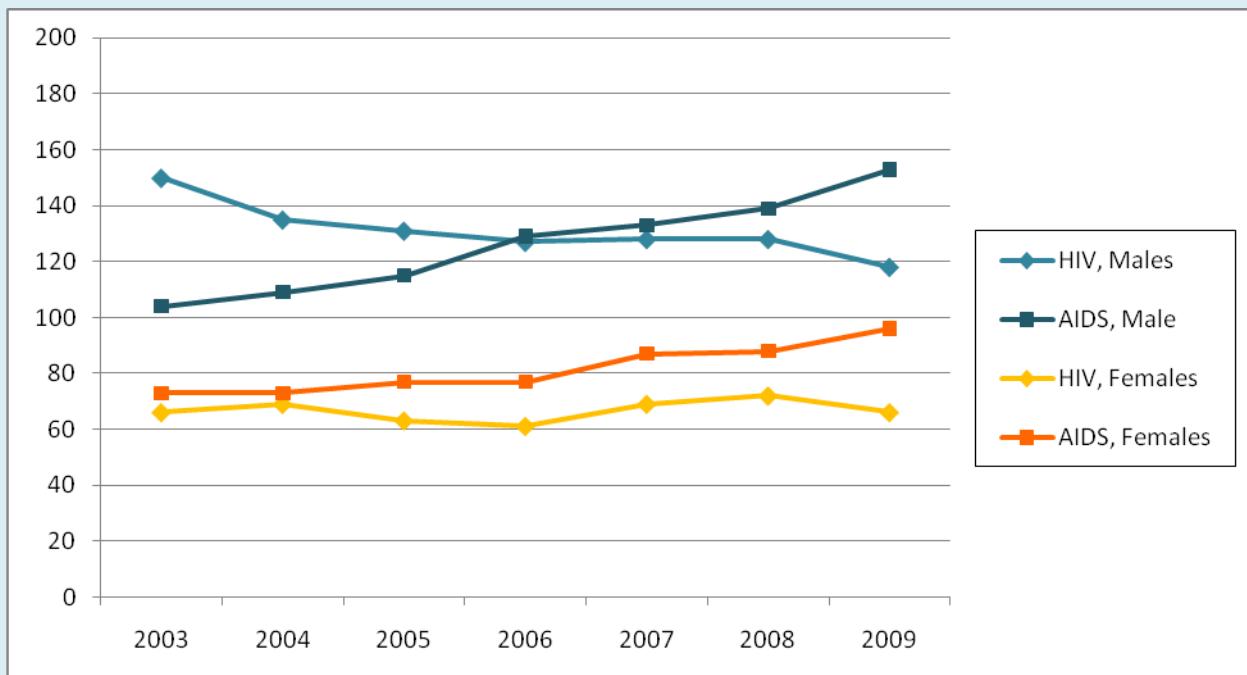
### **Section Summary:**

- More Minnesota males than females are living with HIV or AIDS contracted via intravenous drug use.
- The number of males with HIV contracted via intravenous drug use has gradually declined over the years.

**Substance:** Illicit Drugs

**Data Source:** MDH HIV/AIDS Surveillance Reports

***Number of Cases of HIV and AIDS: Mode of Exposure Intravenous Drug Use (IDU)***



|                | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|
| <b>Males</b>   |      |      |      |      |      |      |      |
| HIV            | 150  | 135  | 131  | 127  | 128  | 128  | 118  |
| AIDS           | 104  | 109  | 115  | 129  | 133  | 139  | 153  |
| Total          | 254  | 244  | 246  | 256  | 261  | 267  | 271  |
| <b>Females</b> |      |      |      |      |      |      |      |
| HIV            | 66   | 69   | 63   | 61   | 69   | 72   | 66   |
| AIDS           | 73   | 73   | 77   | 77   | 87   | 88   | 96   |
| Total          | 139  | 142  | 140  | 138  | 156  | 160  | 162  |
| <b>Total</b>   |      |      |      |      |      |      |      |
| HIV            | 216  | 204  | 194  | 188  | 197  | 200  | 184  |
| AIDS           | 177  | 182  | 192  | 206  | 220  | 227  | 249  |
| Total          | 393  | 386  | 386  | 394  | 417  | 427  | 433  |

## Narcotics Arrests

**About the Indicator:** These data include all arrests for the violation of state and local ordinances, specifically those relating to the unlawful possession, sale, use, growing, manufacturing, and making of narcotic drugs.

**Data Source(s):** Uniform Crime Reports (UCR)

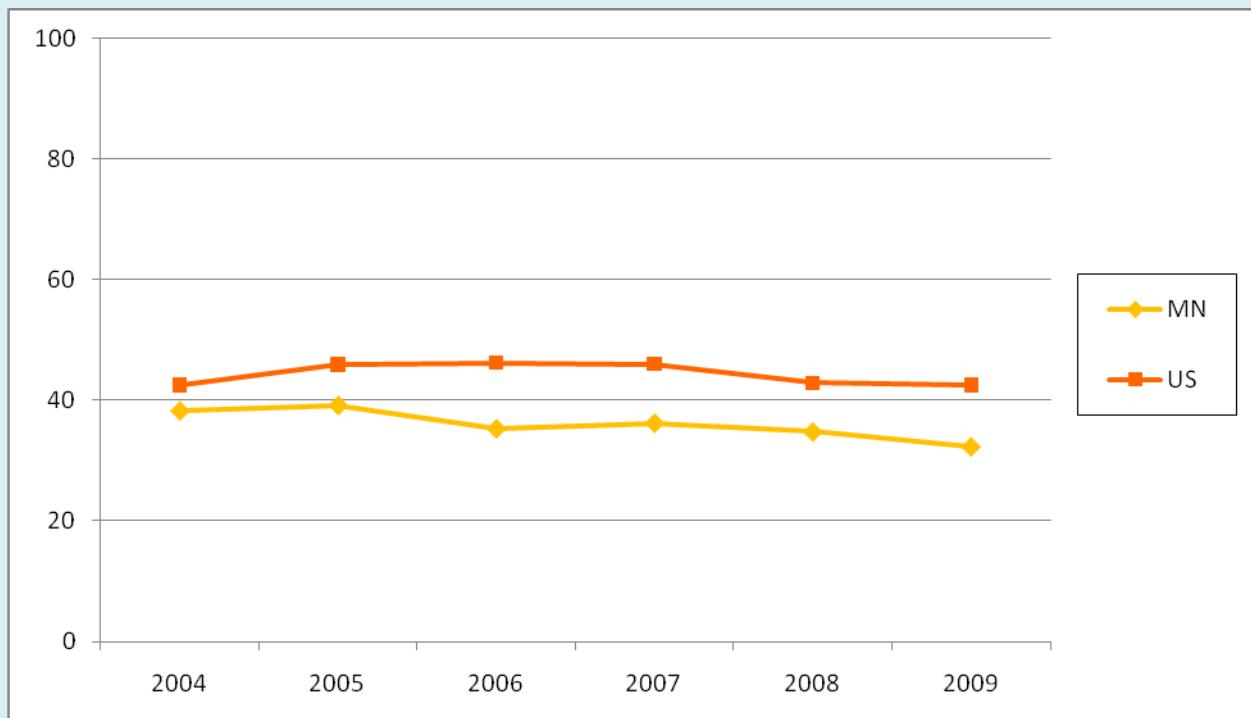
### **Section Summary:**

- The rate of narcotics arrests in Minnesota has been consistently lower than the national rate.
- From 2005 to 2009, approximately 15-16% of Minnesotans arrested for narcotics violations have been under the age of 18.

**Substance:** Illicit Drugs

**Data Source:** UCR

***Narcotics Arrests per 10,000 Population***



| Minnesota*                 | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Narcotics arrests          | 19,439    | 20,001    | 18,186    | 18,814    | 18,196    | 17,040    |
| Rate per 10,000 population | 37.8      | 38.5      | 38.0      | 36.7      | 35.6      | 32.4      |
| United States              | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
| Narcotics arrests          | 1,246,105 | 1,357,841 | 1,379,887 | 1,386,394 | 1,304,098 | 1,305,191 |
| Rate per 10,000 population | 59.3      | 61.1      | 63.5      | 61.3      | 56.5      | 54.1      |
|                            | 2004      | 2005      | 2006      | 2007      | 2008      | 2008      |
| MN:US**                    | 0.64      | 0.63      | 0.60      | 0.60      | 0.63      | 0.60      |

\* St. Paul Police Department does not submit Part II arrest data to the BCA. Includes only arrests where the most serious offense was the Driving Under the Influence offense

\*\*Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

|                  |                  | 2006   |       | 2007   |       | 2008   |       | 2009   |       |
|------------------|------------------|--------|-------|--------|-------|--------|-------|--------|-------|
|                  |                  | N (#)  | %     |
| <b>Age</b>       | Juvenile         | 3,159  | 15.9% | 2,834  | 14.8% | 2,855  | 15.3% | 2,780  | 16.0% |
|                  | Adult            | 16,699 | 84.1% | 16,251 | 85.2% | 15,754 | 84.7% | 14,566 | 84.0% |
| <b>Race</b>      | White            | 13,224 | 66.6% | 12,797 | 67.1% | 12,447 | 66.9% | 12,042 | 69.4% |
|                  | African American | 5,832  | 29.4% | 5,444  | 28.5% | 5,257  | 28.2% | 4,484  | 25.9% |
| <b>Ethnicity</b> | Indian/ Alaskan  | 426    | 2.15% | 447    | 2.34% | 460    | 2.5%  | 425    | 2.5%  |
|                  | Asian            | 376    | 1.89% | 397    | 2.08% | 445    | 2.4%  | 395    | 2.3%  |
| <b>Ethnicity</b> | Hispanic         | 1,548  | 7.7%  | 1,274  | 6.7%  | 1,273  | 6.8%  | 1,318  | 7.6%  |
|                  | Non-Hispanic     | 18,467 | 92.3% | 17,811 | 93.3% | 17,336 | 93.2% | 16,028 | 92.4% |

Note: In this table, for example, 15.2% for juveniles in 2005 indicates that 15.2% of all narcotics arrests were of juveniles. It does not mean that 15.2% of all juveniles were arrested for narcotics. Persons of Hispanic ethnicity can be of any race. St. Paul Police Department does not submit Part II arrest data to the BCA.

## Persons in Prison or on Probation for Drug Offenses

**About the Indicator:** Legal penalties for illicit drugs range from prison time to probation sentences. Both measures are presented here.

It is important to recognize that these data capture the *governing offense* for which a person was convicted. Because persons are counted based on a conviction for the most serious offense, it is likely that these data alone underestimate the role of illicit drugs in all convictions and sentences.

In Minnesota, there are 8 prisons for adults (7 for males and 1 for females). In addition, two other facilities house small numbers of adults. MCF-Togo houses the Female Challenge Incarceration Program; MCF-Red Wing houses a small male population.

Probation is supervision in the community by probation officers who enforce court-ordered conditions designed to protect the public. Offenders on probation often serve jail time and may be required to make restitution, participate in treatment and/or pay fines. Many probationers are required to meet with probation officers on a regular basis and may be tested for drug or alcohol use.

**Data Source(s):** Minnesota Department of Corrections

### **Section Summary:**

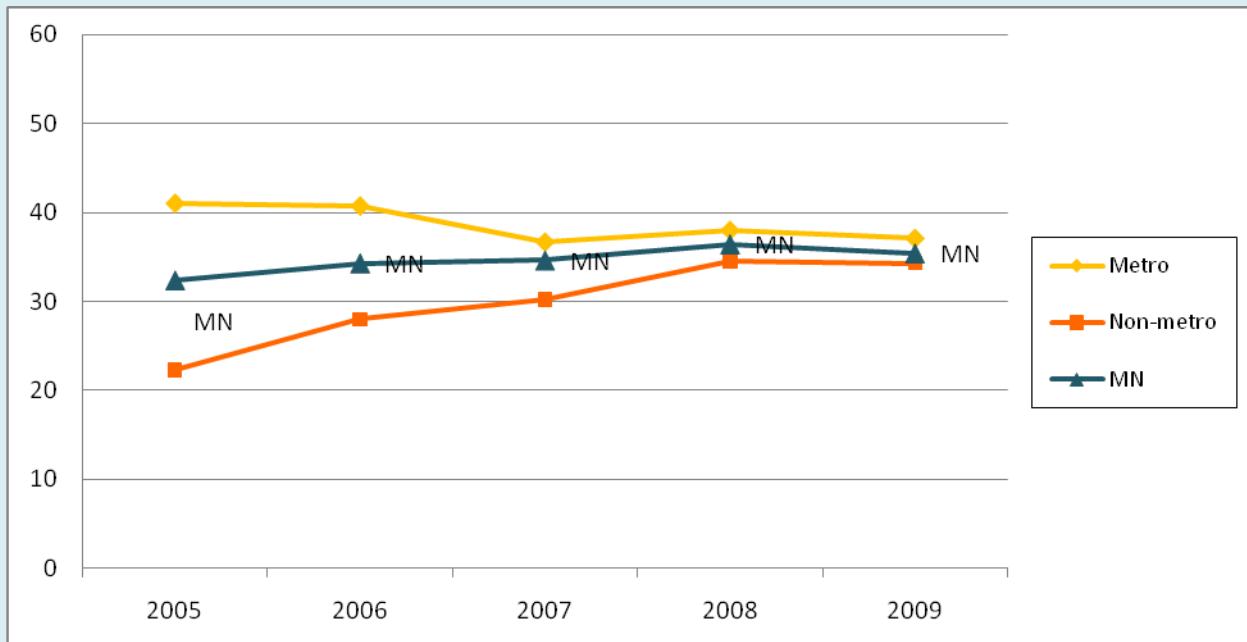
- From 2005 to 2009, the rate of adults on probation for drug offenses was consistently highest in the seven-county metro area. However, the gap between metro and non-metro has decreased.
- The rate of juveniles on probation for drug offenses increased between 2007 and 2009 in the non-metro area.
- The percent of adult prison inmates in Minnesota sentenced for drug offenses decreased from 24.6% in 2005 to 19.9% in 2009.

**Substance: Illicit Drugs**

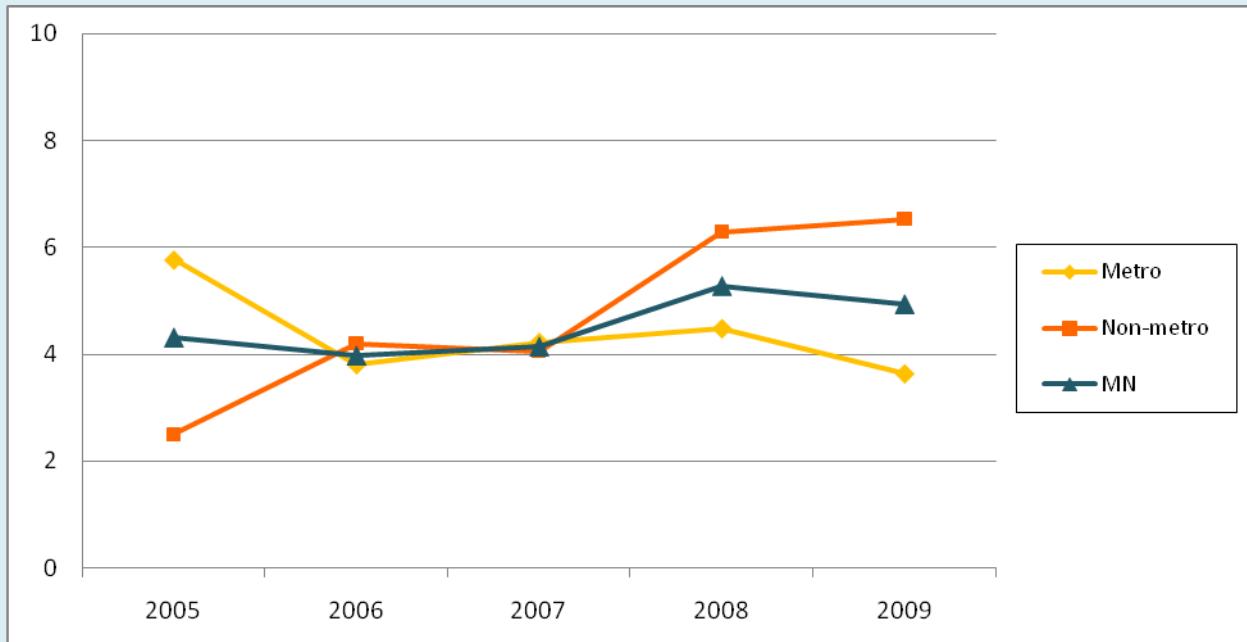
**Data Source:** Probation Survey

***Adults and Juveniles on Probation in Minnesota for Drug Offense as Most Serious Offense***

**Adults on Probation for Drug Offense, Rate per 10,000 Population**



**Juveniles on Probation for Drug Offense, Rate per 10,000 Population**



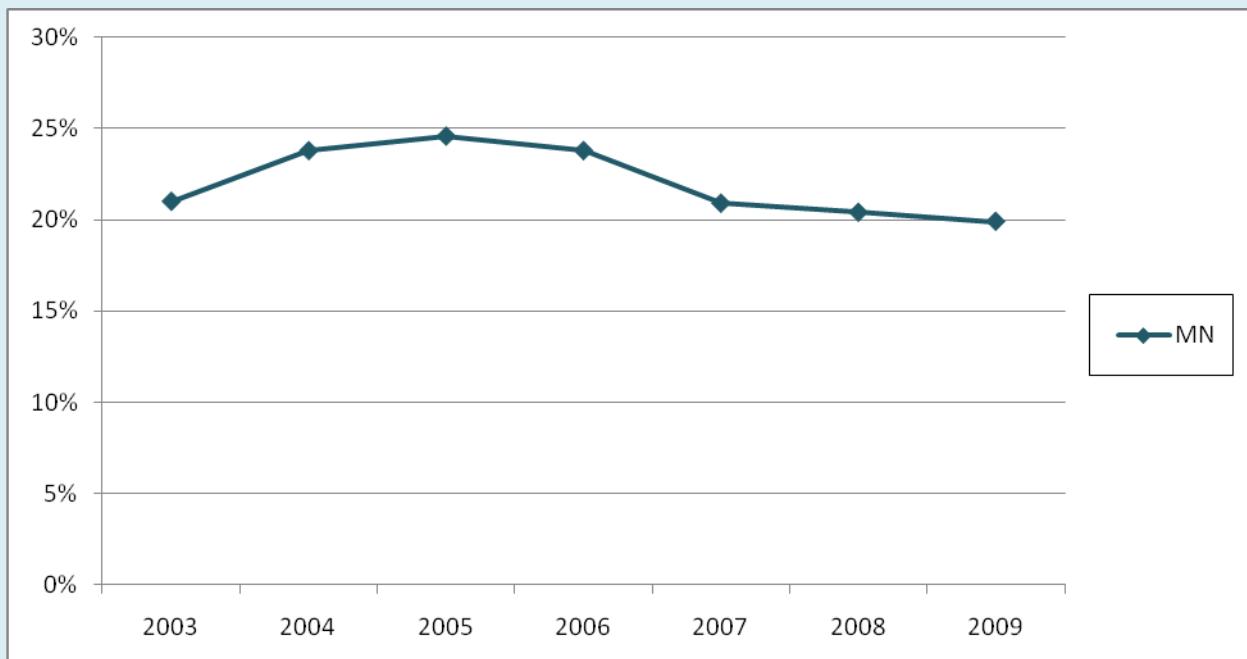
| Adults on Probation for Drug Offenses, Rate per 10,000 Population |        |      |        |      |        |      |        |      |
|---|--------|------|--------|------|--------|------|--------|------|
|   | 2006   |      | 2007   |      | 2008   |      | 2009   |      |
|   | N (#)  | Rate |
| <b>Metro</b>  | 8,318  | 40.7 | 7,684  | 36.7 | 8,020  | 38.0 | 7,885  | 36.6 |
| <b>Non-Metro</b>  | 3,952  | 28.0 | 5,565  | 30.2 | 6,407  | 34.5 | 6,265  | 33.9 |
| <b>MN</b>   | 13,447 | 34.3 | 13,249 | 34.6 | 14,427 | 36.4 | 14,150 | 35.3 |

| Juveniles on Probation for Drug Offenses, Rate per 10,000 Population |       |      |       |      |       |      |       |      |
|--|-------|------|-------|------|-------|------|-------|------|
|  | 2006  |      | 2007  |      | 2008  |      | 2009  |      |
|  | N (#) | Rate |
| <b>Metro</b>   | 267   | 3.8  | 297   | 4.2  | 314   | 4.5  | 251   | 3.6  |
| <b>Non-Metro</b>   | 233   | 4.2  | 226   | 4.1  | 348   | 6.3  | 348   | 6.5  |
| <b>MN</b>  | 500   | 4.0  | 523   | 4.1  | 662   | 5.3  | 623   | 4.9  |

**Substance:** Illicit Drugs

**Data Source:** Inmate Profile

***Percent of Adult Prison Inmates in Minnesota Sentenced for Drug Offenses***



| Minnesota              | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Number of inmates      | 1,483 | 1,859 | 2,090 | 2,109 | 1,858 | 1,893 | 1,832 |
| Percent of all inmates | 21.0% | 23.8% | 24.6% | 23.8% | 20.9% | 20.4% | 19.9% |

| Adult Prison Inmates in Minnesota Sentenced for Drug Offenses by Race/Ethnicity |  |       |       |       |       |       |       |       |
|---|--|-------|-------|-------|-------|-------|-------|-------|
|   |  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  |       |
| White   |  | N (#) | 1,018 | 1,174 | 1,233 | 1,051 | 1,008 | 922   |
|   |  | %     | 54.8% | 56.2% | 58.5% | 56.6% | 53.2% | 50.3% |
| Black   |  | N (#) | 524   | 575   | 558   | 509   | 559   | 586   |
|   |  | %     | 28.2% | 27.6% | 26.5% | 27.4% | 29.5% | 32.0% |
| American Indian   |  | N (#) | 63    | 66    | 57    | 46    | 52    | 65    |
|   |  | %     | 3.4%  | 3.2%  | 2.7%  | 2.5%  | 2.7%  | 3.5%  |
| Hispanic  |  | N (#) | 234   | 246   | 230   | 224   | 239   | 221   |
|   |  | %     | 12.6% | 11.8% | 10.9% | 12.1% | 12.6% | 12.1% |

Note: In this table, for example, 54.8% for white adults in 2004 indicates that 54.8% of all adults in prison for drug offenses are white. It does not mean that 54.8% of white adults in prison are there for drug offenses.

## 10. Other Drug Use in Minnesota: Risk & Protective Factors

### Perception of Harm

**About the Indicator:** Beginning in 2007, students were asked how much they thought people risked harming themselves physically or in other ways if they smoke marijuana once or twice per week. The statistics presented here show the number and percent of students responding with either “great risk” or “moderate risk” of harm. The other two selection options on the survey were “slight risk” and “no risk.”

**Data Source(s):** Minnesota Student Survey (MSS)

#### Section Summary:

- Females were more likely than males to report that they believed people risked harming themselves by smoking marijuana once or twice per week.
- Perception of marijuana harm decreased with grade level.

**Substance:** Illicit Drugs

**Data Source:** MSS

***Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 41,881 | 72% |
|                       | Female                             | 48,995 | 81% |
| <b>Grade</b>          | 6th                                | 37,327 | 87% |
|                       | 9th                                | 32,442 | 77% |
|                       | 12th                               | 21,107 | 64% |
| <b>Race/Ethnicity</b> | White                              | 68,622 | 78% |
|                       | African-American, African or Black | 3,854  | 69% |
|                       | American Indian                    | 1,065  | 63% |
|                       | Asian American/Pacific Islander    | 4,813  | 80% |
|                       | Hispanic/Latino                    | 3,364  | 71% |
| <b>Region</b>         | Metro                              | 47,852 | 75% |
|                       | Non-Metro                          | 43,024 | 78% |

***Minnesota Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender and Grade, 2010***

|              |      | Male   |     | Female |     |
|--------------|------|--------|-----|--------|-----|
|              |      | N (#)  | %   | N (#)  | %   |
| <b>Grade</b> | 6th  | 18,336 | 86% | 18,991 | 88% |
|              | 9th  | 14,731 | 72% | 17,711 | 82% |
|              | 12th | 8,814  | 55% | 12,293 | 72% |

***Minnesota Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Grade and Race/Ethnicity, 2010***

|                                    |  | 6 <sup>th</sup> Grade |     | 9th grade |     | 12th grade |     |
|------------------------------------|--|-----------------------|-----|-----------|-----|------------|-----|
|                                    |  | N (#)                 | %   | N (#)     | %   | N (#)      | %   |
| <b>Race/Ethnicity</b>              |  |                       |     |           |     |            |     |
| White                              |  | 26,479                | 90% | 25,120    | 80% | 17,023     | 64% |
| African-American, African or Black |  | 1,760                 | 75% | 1,273     | 66% | 821        | 62% |
| American Indian                    |  | 642                   | 73% | 275       | 51% | 148        | 53% |
| Asian American/Pacific Islander    |  | 1,731                 | 80% | 1,793     | 82% | 1,289      | 76% |
| Hispanic/Latino                    |  | 1,562                 | 75% | 1,194     | 69% | 608        | 63% |

***Race-Specific Data on Youth Perception of Marijuana Harm***

| <b>White Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender and Grade, 2010</b>                              |      |             |     |               |     |
|---|------|-------------|-----|---------------|-----|
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 13,088      | 89% | 13,391        | 91% |
|   | 9th  | 11,378      | 75% | 13,742        | 84% |
|   | 12th | 7,022       | 54% | 10,001        | 72% |
| <b>African-American, African or Black Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender and Grade, 2010</b> |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 876         | 74% | 884           | 76% |
|   | 9th  | 614         | 62% | 659           | 72% |
|   | 12th | 365         | 57% | 456           | 67% |
| <b>American Indian Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 327         | 69% | 315           | 78% |
|   | 9th  | 145         | 48% | 130           | 56% |
|   | 12th | 73          | 49% | 75            | 57% |
| <b>Asian American/Pacific Islander Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender and Grade, 2010</b>    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 870         | 80% | 861           | 80% |
|   | 9th  | 786         | 76% | 1,007         | 87% |
|   | 12th | 565         | 69% | 724           | 83% |
| <b>Hispanic/Latino Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 762         | 74% | 800           | 77% |
|   | 9th  | 548         | 62% | 646           | 76% |
|   | 12th | 259         | 57% | 349           | 69% |

***Students Reporting that They Believe People Put themselves at Great or Moderate Risk of Harm by Smoking Marijuana Once or Twice per Week, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 32,867       | 77%      | 35,755           | 80%      |
| African-American, African or Black | 3,221        | 68%      | 633              | 72%      |
| American Indian                    | 405          | 64%      | 660              | 62%      |
| Asian American/Pacific Islander    | 4,076        | 80%      | 737              | 78%      |
| Hispanic/Latino                    | 2,097        | 70%      | 1,267            | 71%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## Perception of Disapproval

**About the Indicator:** In 2010, students were asked how they thought their parents or guardians would feel if they smoked marijuana. Students were also asked how they thought their parents or guardians would feel if they used drugs other than marijuana. The statistics presented here show the number and percent of students responding that their close friends would either “greatly disapprove” or “disapprove.” The other two selection options on the survey were “would not care at all” and “would approve.”

In the previous Minnesota Profile the students were asked how their close friends would feel about the same two questions, but, if they used them once or twice a week. If you would like to see those data, they are available on the SUMN.org website.

**Data Source(s):** Minnesota Student Survey (MSS)

### **Section Summary:**

- Students were slightly more likely to report that they believed their parents or guardians would disapprove of them using drugs other than marijuana once or twice a week as compared to using marijuana alone.
- Perception of parents or guardian disapproval of marijuana use decreased slightly with grade level. In comparison, perception of disapproval of drugs other than marijuana did not vary by grade level.

**Substance:** Illicit Drugs

**Data Source:** MSS

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 55,896 | 97% |
|                       | Female                             | 59,401 | 96% |
| <b>Grade</b>          | 6th                                | 42,651 | 98% |
|                       | 9th                                | 41,128 | 96% |
|                       | 12th                               | 31,518 | 94% |
| <b>Race/Ethnicity</b> | White                              | 85,844 | 97% |
|                       | African-American, African or Black | 5,289  | 93% |
|                       | American Indian                    | 1,557  | 90% |
|                       | Asian American/Pacific Islander    | 5,902  | 96% |
|                       | Hispanic/Latino                    | 4,618  | 95% |
| <b>Region</b>         | Metro                              | 61,786 | 96% |
|                       | Non-Metro                          | 53,511 | 97% |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010***

|              |      | Male   |     | Female |     |
|--------------|------|--------|-----|--------|-----|
|              |      | N (#)  | %   | N (#)  | %   |
| <b>Grade</b> | 6th  | 21,070 | 98% | 21,581 | 98% |
|              | 9th  | 19,787 | 96% | 21,341 | 97% |
|              | 12th | 15,039 | 92% | 16,479 | 95% |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010***

|                                    | 6 <sup>th</sup> Grade |     |        | 9 <sup>th</sup> grade |        | 12 <sup>th</sup> grade |
|------------------------------------|-----------------------|-----|--------|-----------------------|--------|------------------------|
| Race/Ethnicity                     | N (#)                 | %   | N (#)  | %                     | N (#)  | %                      |
| White                              | 29,308                | 99% | 30,953 | 97%                   | 25,583 | 95%                    |
| African-American, African or Black | 2,278                 | 95% | 1,837  | 94%                   | 1,174  | 87%                    |
| American Indian                    | 839                   | 95% | 484    | 88%                   | 234    | 81%                    |
| Asian American/Pacific Islander    | 2,107                 | 96% | 2,154  | 96%                   | 1,641  | 96%                    |
| Hispanic/Latino                    | 2,007                 | 95% | 1,709  | 96%                   | 902    | 93%                    |

***Race-Specific Data on Youth Perception of Parents or Guardians Disapproval***

| <b>White Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010</b>                              |      |             |     |               |     |
|--|------|-------------|-----|---------------|-----|
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6th  | 14,608      | 99% | 14,700        | 99% |
|  | 9th  | 14,825      | 97% | 16,128        | 97% |
|  | 12th | 12,188      | 94% | 13,395        | 96% |
| <b>African-American, African or Black Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010</b> |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6th  | 1,143       | 95% | 1,135         | 96% |
|  | 9th  | 942         | 92% | 895           | 95% |
|  | 12th | 545         | 83% | 629           | 90% |
| <b>American Indian Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6th  | 444         | 94% | 395           | 96% |
|  | 9th  | 269         | 87% | 215           | 90% |
|  | 12th | 120         | 79% | 114           | 84% |
| <b>Asian American/Pacific Islander Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010</b>    |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6th  | 1,036       | 95% | 1,071         | 97% |
|  | 9th  | 985         | 95% | 1,169         | 98% |
|  | 12th | 775         | 94% | 866           | 97% |
| <b>Hispanic/Latino Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|  |      | <b>Male</b> |     | <b>Female</b> |     |
|  |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>   | 6th  | 981         | 95% | 1,026         | 96% |
|  | 9th  | 863         | 95% | 846           | 97% |
|  | 12th | 425         | 91% | 477           | 94% |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Smoked Marijuana, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 41,751       | 97%      | 44,093           | 97%      |
| African-American, African or Black | 4,476        | 93%      | 813              | 92%      |
| American Indian                    | 587          | 91%      | 970              | 90%      |
| Asian American/Pacific Islander    | 4,981        | 96%      | 921              | 96%      |
| Hispanic/Latino                    | 2,906        | 95%      | 1,712            | 95%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

**Substance:** Illicit Drugs

**Data Source:** MSS

***Students Reporting that They Believe their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs other than Marijuana, by Gender, Grade, Race/Ethnicity and Region, 2010***

|                       |                                    | N (#)  | %   |
|-----------------------|------------------------------------|--------|-----|
| <b>Gender</b>         | Male                               | 56,933 | 97% |
|                       | Female                             | 60,347 | 98% |
|                       |                                    |        |     |
| <b>Grade</b>          | 6th                                | 42,707 | 98% |
|                       | 9th                                | 41,803 | 98% |
|                       | 12th                               | 32,770 | 98% |
|                       |                                    |        |     |
| <b>Race/Ethnicity</b> | White                              | 87,226 | 99% |
|                       | African-American, African or Black | 5,428  | 95% |
|                       | American Indian                    | 1,634  | 95% |
|                       | Asian American/Pacific Islander    | 5,926  | 96% |
|                       | Hispanic/Latino                    | 4,673  | 96% |
|                       |                                    |        |     |
| <b>Region</b>         | Metro                              | 62,900 | 98% |
|                       | Non-Metro                          | 54,380 | 98% |

***Students Reporting that They Believe their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs other than Marijuana, by Gender and Grade, 2010***

|              |      | Male   |     | Female |     |
|--------------|------|--------|-----|--------|-----|
|              |      | N (#)  | %   | N (#)  | %   |
| <b>Grade</b> | 6th  | 21,100 | 98% | 21,607 | 98% |
|              | 9th  | 20,095 | 97% | 21,708 | 98% |
|              | 12th | 15,738 | 97% | 17,032 | 98% |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs other than Marijuana, by Gender and Grade, 2010***

|                       |                                    | 6 <sup>th</sup> Grade |     | 9th grade |     | 12th grade |     |
|-----------------------|------------------------------------|-----------------------|-----|-----------|-----|------------|-----|
|                       |                                    | N (#)                 | %   | N (#)     | %   | N (#)      | %   |
| <b>Race/Ethnicity</b> | White                              | 29,213                | 99% | 31,386    | 99% | 26,527     | 98% |
|                       | African-American, African or Black | 2,284                 | 96% | 1,891     | 96% | 1,253      | 93% |
|                       | American Indian                    | 856                   | 96% | 514       | 94% | 264        | 92% |
|                       | Asian American/Pacific Islander    | 2,107                 | 96% | 2,166     | 97% | 1,653      | 96% |
|                       | Hispanic/Latino                    | 2,005                 | 95% | 1,728     | 97% | 940        | 96% |

***Race-Specific Data on Youth Perception of Parents or Guardians Disapproval***

| <b>White Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs Other than Marijuana, by Gender and Grade, 2010</b>                              |      |             |     |               |     |
|---|------|-------------|-----|---------------|-----|
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 14,610      | 99% | 14,703        | 99% |
|   | 9th  | 15,020      | 98% | 16,366        | 99% |
|   | 12th | 12,730      | 98% | 13,797        | 99% |
| <b>African-American, African or Black Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs Other than Marijuana, by Gender and Grade, 2010</b> |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 1,146       | 95% | 1,138         | 96% |
|   | 9th  | 969         | 95% | 922           | 98% |
|   | 12th | 590         | 91% | 663           | 95% |
| <b>American Indian Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs Other than Marijuana, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 452         | 95% | 404           | 98% |
|   | 9th  | 286         | 93% | 228           | 95% |
|   | 12th | 137         | 90% | 127           | 94% |
| <b>Asian American/Pacific Islander Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs Other than Marijuana, by Gender and Grade, 2010</b>    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 1,036       | 95% | 1,071         | 97% |
|   | 9th  | 995         | 95% | 1,171         | 98% |
|   | 12th | 783         | 95% | 870           | 98% |
| <b>Hispanic/Latino Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs Other than Marijuana, by Gender and Grade, 2010</b>                    |      |             |     |               |     |
|   |      | <b>Male</b> |     | <b>Female</b> |     |
|   |      | N (#)       | %   | N (#)         | %   |
| <b>Grade</b>  | 6th  | 979         | 95% | 1,026         | 96% |
|   | 9th  | 871         | 95% | 857           | 98% |
|   | 12th | 444         | 95% | 496           | 97% |

***Students Reporting that They Believe Their Parents or Guardians would Disapprove or Greatly Disapprove if They Used Drugs Other than Marijuana, by Region and Race/Ethnicity, 2010***

| <b>Race/Ethnicity</b>              | <b>Metro</b> |          | <b>Non-Metro</b> |          |
|------------------------------------|--------------|----------|------------------|----------|
|                                    | <b>N (#)</b> | <b>%</b> | <b>N (#)</b>     | <b>%</b> |
| White                              | 42,478       | 98%      | 44,748           | 99%      |
| African-American, African or Black | 4,602        | 96%      | 826              | 94%      |
| American Indian                    | 608          | 94%      | 1,026            | 95%      |
| Asian American/Pacific Islander    | 5,001        | 96%      | 925              | 96%      |
| Hispanic/Latino                    | 2,933        | 96%      | 1,740            | 96%      |

NOTE: Total percent represents the total number of survey respondents reporting use divided by the total number of survey respondents who answered the question. Percent within an age group, for example, represents the total number of survey respondents in the age group reporting use, divided by the total number of survey respondents in that age group who answered the question.

## 11. Cost Data

### Cost of Alcohol-Related Motor Vehicle Crashes

**About the Indicator:** The following estimates provided by the National Safety Council do not attempt to include “comprehensive costs” but just direct costs of traffic crashes, deaths and injuries due to medical expense, property damage and lost productivity.

Other procedures that attempt to include comprehensive costs (e.g. those used by US Dept of Transportation) result in total cost estimates about three times greater than those calculated here. In 2007, alcohol related crashes contributed 19% of the total cost of all motor vehicle crashes in Minnesota.

**Data Source(s):** Minnesota Office of Traffic Safety

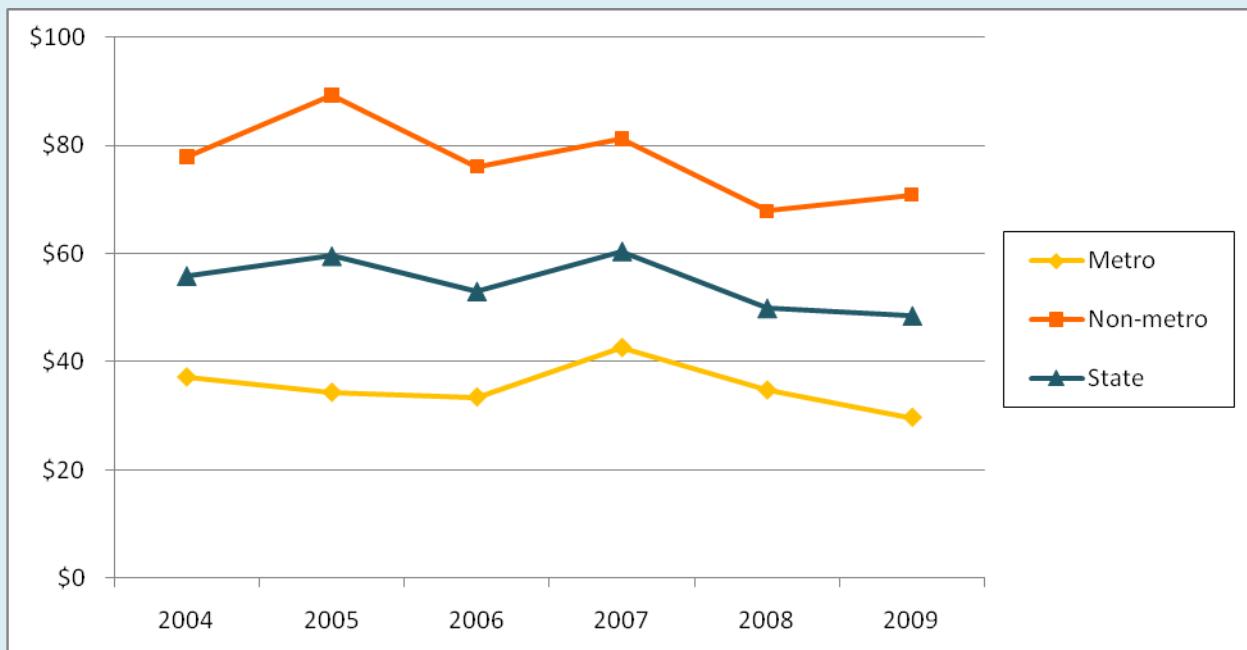
#### **Section Summary:**

- The annual estimated cost of alcohol-related motor vehicle crashes has averaged \$284 million over the past six years.
- In 2009, alcohol-related motor vehicle crashes cost our state approximately \$48 per capita.

**Substance:** Alcohol

**Data Source:** MN Office of Traffic Safety

***Cost of Alcohol-Related Traffic Crashes, Fatalities and Injuries per Capita***



**Minnesota Total Estimated Alcohol-Related Crash Costs, in Millions**

|                  | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
|------------------|---------|---------|---------|---------|---------|---------|
| <b>Metro</b>     | \$102.9 | \$96.4  | \$94.3  | \$119.0 | \$97.5  | \$84.4  |
| <b>Non-metro</b> | \$184.9 | \$213.7 | \$183.3 | \$195.1 | \$163.5 | \$171.5 |
| <b>State</b>     | \$287.8 | \$310.1 | \$277.7 | \$314.1 | \$261.0 | \$255.9 |

**Minnesota Estimated Alcohol-Related Crash Costs, per Capita**

|                  | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
|------------------|---------|---------|---------|---------|---------|---------|
| <b>Metro</b>     | \$37.14 | \$34.29 | \$33.44 | \$42.60 | \$34.71 | \$29.66 |
| <b>Non-metro</b> | \$77.88 | \$89.23 | \$76.09 | \$81.19 | \$67.83 | \$70.87 |
| <b>State</b>     | \$55.94 | \$59.57 | \$53.08 | \$60.44 | \$50.00 | \$48.59 |

## SAMMEC

**About the Indicator:** Smoking-attributable productivity losses are defined as the present value of foregone future earnings (PVFE) from paid labor and of foregone future imputed earnings from unpaid household work. Sex-weighted estimates were used to eliminate the impact of gender bias in compensation and occupational attainment. For each smoking-related disease, Smoking-Attributable Mortality (SAM) by sex and 5-year age category is multiplied by the PVFE. To estimate SAM, Adult SAMMEC multiplies the age- and sex-specific smoking-attributable fractions (SAF) by the number of deaths for each smoking-related disease.

MCH SAMMEC uses birth certificate data on maternal smoking to estimate smoking-attributable outcomes. MCH Smoking-Attributable Expenditures (SAE) are neonatal medical care costs caused by maternal smoking. These costs include all inpatient services, such as physician, ancillary, pharmaceutical, and accommodations.

**Data Source(s):** Smoking-Attributable Mortality, Morbidity and Economic Costs (SAMMEC)

### **Section Summary:**

- Minnesota's estimated average annual smoking-attributable productivity losses were \$1,335,103,000 in 2004.
- In 2004, smoking-attributable neonatal expenditures were estimated to be \$297 per smoker in Minnesota as compared to \$353 per smoker in the US.

**Substance:** Tobacco

**Data Source:** SAMMEC

| Smoking-Attributable Productivity Losses, in Millions of Dollars (United States, 2004) <sup>1,2</sup> |              |              |                |                 |                 |                  |
|---|--------------|--------------|----------------|-----------------|-----------------|------------------|
|   | Minnesota    |              |                | United States   |                 |                  |
| Disease Category  | Male         | Female       | Total          | Male            | Female          | Total            |
| <b>Malignant Neoplasms</b>  |              |              |                |                 |                 |                  |
| Lip, Oral Cavity, Pharynx   | \$18         | \$7          | \$25           | \$1,689         | \$368           | \$2,057          |
| Esophagus   | \$48         | \$7          | \$55           | \$2,589         | \$463           | \$3,052          |
| Stomach   | \$8          | \$1          | \$9            | \$599           | \$164           | \$763            |
| Pancreas  | \$19         | \$12         | \$31           | \$1,214         | \$946           | \$2,159          |
| Larynx  | \$10         | \$2          | \$13           | \$884           | \$188           | \$1,072          |
| Trachea, Lung, Bronchus   | \$319        | \$219        | \$538          | \$23,852        | \$14,351        | \$38,202         |
| Cervix Uteri  | \$0          | \$3          | \$3            | \$0             | \$296           | \$296            |
| Kidney and Renal Pelvis   | \$18         | \$0          | \$18           | \$996           | \$72            | \$1,068          |
| Urinary Bladder   | \$11         | \$2          | \$12           | \$794           | \$189           | \$983            |
| Acute Myeloid Leukemia  | \$6          | \$1          | \$7            | \$282           | \$106           | \$388            |
| <b>Subtotal</b>   | <b>\$457</b> | <b>\$255</b> | <b>\$711</b>   | <b>\$32,899</b> | <b>\$17,141</b> | <b>\$50,040</b>  |
|   |              |              |                |                 |                 |                  |
| <b>Cardiovascular Diseases</b>  |              |              |                |                 |                 |                  |
| Ischemic Heart Disease  | \$219        | \$47         | \$266          | \$18,315        | \$5,966         | \$24,281         |
| Other Heart Disease   | \$37         | \$15         | \$51           | \$3,340         | \$1,271         | \$4,611          |
| Cerebrovascular Disease   | \$34         | \$33         | \$67           | \$3,030         | \$2,843         | \$5,873          |
| Atherosclerosis   | \$1          | \$0          | \$1            | \$136           | \$40            | \$176            |
| Aortic Aneurysm   | \$19         | \$10         | \$30           | \$1,273         | \$435           | \$1,708          |
| Other Arterial Disease  | \$2          | \$2          | \$3            | \$133           | \$133           | \$266            |
| <b>Subtotal</b>   | <b>\$312</b> | <b>\$107</b> | <b>\$419</b>   | <b>\$26,226</b> | <b>\$10,688</b> | <b>\$36,915</b>  |
|   |              |              |                |                 |                 |                  |
| <b>Respiratory Diseases</b>   |              |              |                |                 |                 |                  |
| Pneumonia, Influenza  | \$8          | \$3          | \$11           | \$868           | \$536           | \$1,404          |
| Bronchitis, Emphysema   | \$15         | \$8          | \$23           | \$1,328         | \$983           | \$2,311          |
| Chronic Airway Obstruction  | \$95         | \$76         | \$171          | \$6,555         | \$5,916         | \$12,470         |
| <b>Subtotal</b>   | <b>\$117</b> | <b>\$87</b>  | <b>\$205</b>   | <b>\$8,750</b>  | <b>\$7,435</b>  | <b>\$16,186</b>  |
|   |              |              |                |                 |                 |                  |
| <b>Total</b>  | <b>\$886</b> | <b>\$449</b> | <b>\$1,335</b> | <b>\$67,876</b> | <b>\$35,265</b> | <b>\$103,141</b> |

<sup>1</sup> Among adults aged 35 years and older.

<sup>2</sup> Does not include burn or second hand smoke deaths.

| Smoking-Attributable Neonatal Expenditures, 2004                            |               |                  |
|---|---------------|------------------|
|   | Minnesota     | United States    |
| <b>Births</b>   | 65,165        | 3,839,333        |
| <b>Smoking Prevalence</b>   | 10.0%         | 11.0%            |
| <b>Smoking-Attributable Expenditures (SAE)</b>                              |               |                  |
| <b>Total Neonatal Expenditures</b>  | \$378,843,113 | \$24,785,530,338 |
| <b>Overall Smoking-Attributable Fraction (SAF) of Neonatal Expenditures</b> | 0.51%         | 0.60%            |
| <b>Smoking-Attributable Neonatal Expenditures</b>                           | \$1,927,006   | \$148,552,951    |
| <b>SAF among Smokers</b>  | 4.58%         | 5.00%            |
| <b>SAE per Smoker</b>   | \$297         | \$353            |

Note: Smoking status is obtained through maternal self reports, and the prevalence of maternal smoking may be substantially understated.

**Substance:** Alcohol, Tobacco and Other Drugs

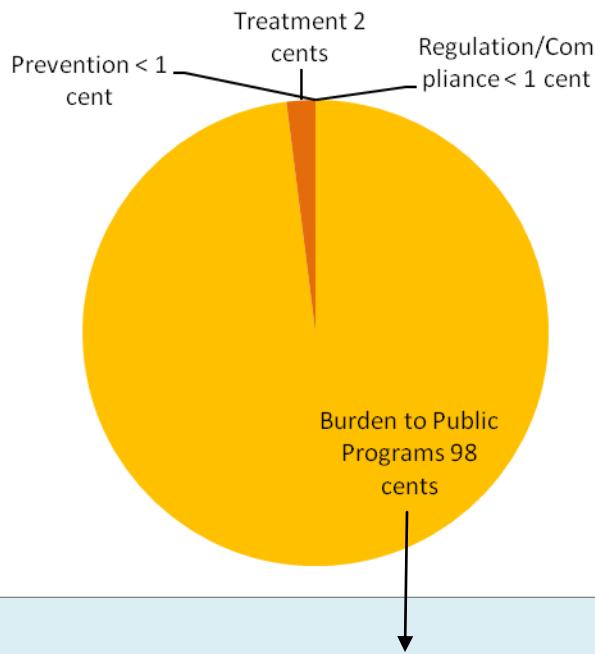
**Data Source:** Shoveling Up II

*Summary of State Spending on Substance Abuse and Addiction, 2005*

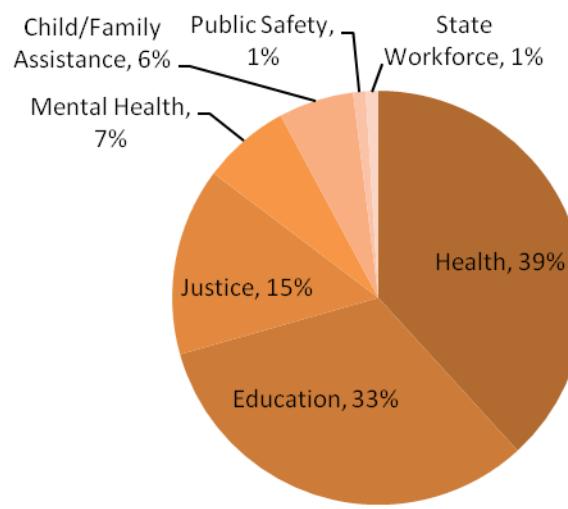
|  | State<br>Spending by<br>Category<br>(\$000) | Spending Related to Substance Abuse |         |                                  |                 |
|--|---|-------------------------------------|---------|----------------------------------|-----------------|
|  |   | Amount (\$000)                      | Percent | As Percent<br>of State<br>Budget | Per<br>Capita   |
| Burden Spending                        |   | \$2,774,049.8                       |         | 14.9                             | \$536.87        |
| Justice                                | 475,773.6                                   | 409,674.8                           |         | 2.2                              | 79.29           |
| Adult Corrections                      | 226,527.6                                   | 190,877.7                           | 84.3    |                                  |                 |
| Juvenile Justice                       | 9,271.4                                     | 7,694.3                             | 83.0    |                                  |                 |
| Judiciary                              | 239,974.7                                   | 211,102.8                           | 88.0    |                                  |                 |
| Education (K-12)                       | 6,277,196.0                                 | 915,529.7                           | 14.6    | 4.9                              | 177.18          |
| Health                                 | 3,086,416.9                                 | 1,069,725.2                         | 34.7    | 5.8                              | 207.03          |
| Child/Family Assistance                | 346,344.1                                   | 159,307.7                           |         | 0.9                              | 30.83           |
| Child Welfare                          | 140,419.0                                   | 109,798.9                           | 78.2    |                                  |                 |
| Income Assistance                      | 205,925.1                                   | 49,508.8                            | 24.0    |                                  |                 |
| Mental Health                          | 301,741.9                                   | 185,379.9                           | 61.4    |                                  |                 |
| Public Safety                          | 64,685.0                                    | 17,493.3                            | 27.0    | 0.1                              | 3.39            |
| State Workforce                        | 3,680,050.0                                 | 16,939.1                            | 0.5     | 0.1                              | 3.28            |
|  |   |                                     |         |                                  |                 |
| Licensing and Control                  | 446.0                                       | 446.0                               | 100.0   | 0.0                              | 0.09            |
|  |   |                                     |         |                                  |                 |
| Prevention and Treatment               | 66,192.7                                    | 66,192.7                            | 100.0   | 0.4                              | 12.81           |
| Prevention                             | 7,880.0                                     | 7,880.0                             |         |                                  |                 |
| Treatment                              | 55,675.7                                    | 55,675.7                            |         |                                  |                 |
| Unspecified                            | 2,637.0                                     | 2,637.0                             |         |                                  |                 |
|  |   |                                     |         |                                  |                 |
| <b>Total</b>                           |   | <b>\$2,840,688.5</b>                |         | <b>15.3</b>                      | <b>\$549.76</b> |
|  |   |                                     |         |                                  |                 |
| <b>Tobacco and Alcohol Tax Revenue</b> |   | <b>\$243,218.0</b>                  |         |                                  | <b>\$47.07</b>  |

Note: Numbers may not add due to rounding.

## The MN Substance Abuse Dollar



## Shouldering the Burden of MN Substance Abuse



## Appendix A: Acronym Glossary

|        |   |
|--------|---|
| ATOD   | Alcohol, Tobacco or Other Drugs                               |
| ARDI   | Alcohol-Related Disease Impact                                |
| BRFSS  | Behavioral Risk Factor Surveillance System                    |
| BCA    | Minnesota Bureau of Criminal Apprehension                     |
| CDC    | Centers for Disease Control and Prevention                    |
| CSAP   | Center for Substance Abuse Prevention                         |
| FARS   | Fatality Analysis Reporting System                            |
| MAPCC  | Minnesota ATOD Prevention Coordinating Council                |
| MNSASU | Minnesota Survey of Adult Substance Use                       |
| MSS    | Minnesota Student Survey                                      |
| NCSA   | National Center for Statistics and Analysis                   |
| NHTSA  | National Highway Traffic Safety Administration                |
| NSDUH  | National Survey on Drug Use and Health                        |
| NVSS   | National Vital Statistics System                              |
| SAMHSA | Substance Abuse and Mental Health Services Administration     |
| SAMMEC | Smoking-Attributable Mortality, Morbidity, and Economic Costs |
| SEOW   | State Epidemiological Outcomes Workgroup                      |
| SPF    | Strategic Prevention Framework                                |
| UCR    | Uniform Crime Reports   |

## Appendix B: Endnotes

1. Mokdad AH, Marks JS, Stroup DF, Gerberding JL. "Actual causes of death in the United States, 2000." *Journal of the American Medical Association* 2004; 291(10):1238-1245.
2. United States Department of Agriculture and United States Department of Health and Human Services. *Dietary Guidelines for Americans*. Chapter 9—Alcoholic Beverages. Washington, DC: US Government Printing Office; 2005. p.43-46.
3. Corrao G, Gannardi V, Zambon A, La Vecchia C. A meta-analysis of alcohol consumption and the risk of 15 diseases. *Preventive Medicine* 2004;38:613-609.
4. Hayward I, Zubrick SR, Silburn S. Blood alcohol levels in suicide cases. *Journal of Epidemiological Community Health* 1992;46(3):256-260.

## Questions and Comments

Please direct questions and comments to the Minnesota Institute of Public Health:

763-427-5310  
1-800-782-1878

County-level data, and a PDF of this profile, can be found at the State Epidemiological Outcomes Workgroup's interactive website Substance Use in Minnesota (SUMN): [www.sumn.org](http://www.sumn.org)